

016193  
Swim Relogs

DDH 6651  
6652  
6653  
6654  
66L1  
66L2  
66L3  
6851  
71-008  
71-009

ANVIL pr'72

(<sup>2</sup> actually lab'd hole <sup>8</sup> #4 also)

Lithologic Log

Logged By: [Signature]

Code	From	To	Unit	Code	Description
1	10 14	16 20	22 23	25 27	
	10	25			OB
	25	119			Mostly medium grey siliceous phyllite with subordinate light grey phyllite and dark grey carbonaceous phyllite - non limy not particularly siliceous - a few slightly greenish grey quartzose layers and sulphides
	119	143			Dark grey highly carbonaceous phyllite to graphitic phyllite - very fine grained - a few limy layers but very small - grades locally into med grey chl miss phy as above.
	143	203			very broken section with only 40' of chips recovered probably actually less than 40% recovery - chips are medium grey and carbonaceous phyllites as above - worst recover 155-205'
	203	296			Fairly hard <sup>grey</sup> graph phyllite similar to carb phy above but somewhat harder and generally more uniform - non limy - usually with ca. 1% finely dissemin po string out along foliation locally with white gtz stringers in the manner of ribb. banded most with ~20% py or po - possible to find lim sphal lcl but hard to tell from oxld po fairly cherty throughout especially at base where it grades into underlying unit
	296	328			Lighter colored and strikingly color banded it grey folk grey gtsite/mich chert/ <sup>1st</sup> some clear cut chert very very hard - lots of isolated chert fragments that in some places look like • banded • layers in others look like pebbles - 1 1/2" thick possible chert <sup>limy</sup> gtz <sup>esp. 15-20'</sup> but not at 327'
	328	337			cherty gtz it grey color banded as above but with not blk frags to into underlying unit

327 at least 10 samples  
limy

Lithologic Log

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Code	From		To		Unit		Code		Description
	10	14	16	20	22	23	25	27	
	1337		1352						It greenish to gray to chloritic matrix (?) common small black porphyroblasts (?) or fengite (?) - fairly common white qtz bands with minor px & black porphs (?) grades into underlying green unit
	1352		1435						Medium green to yellowish green, moderately hard chl qtz feld (?) epi (?) foliated matrix (per s <sub>2</sub> ) with abt fine black <sup>abundant</sup> porphs as above
	1435		1439						light buff to off white qtz musc phy acid tuFF??
	1439		1510						well laminated along S <sub>1</sub> green <del>fragile</del> <sup>fragile</sup> <del>fragile</del> gray color banded phyllitic - mod hard. to 66 petite maxima ?? - looks like calc sil at times
			1510						EoH

6652

Code	From	To	Unit	Code	Description
1	10 14 16 20	22 23 25 27			
	10 14	16 20	11		OB
	11 12	12 18	12		Med grey chl msc ± graph phyllite - grades for a few feet into fairly carbonaceous phyllite. Soft non siliceous non limy - becomes a little hard & locally cherty in last 20' 132-147 more carb than normal.
	12 18	12 19	13		Dark grey v. lg hard cherty graph phyllite minor diss po + py below zero very broken & probably lost core
	12 19	12 19	14		gts vein
	12 19	13 12	15		hard dk grey graph gts to cherty graph ph generally with few % po. Several short bits l. to ribbon banded with po (some sulphides completely leached)
	13 12	13 35 S	16		14 grey green actinolite gts with dk grey carb phy partings minor po - minor calcite lky
	13 35 S	13 48 S	17		<del>as 5</del> cherty graph phy - few light gts stringers minor po
	13 48 S	13 55 S			as 6 but more yellowish green gts bands & some chert stringers (test or soil??)
	13 55 S	14 10 10	18		some as 7 again few stringers - quite uniform dull grey - hard. few % diss lg po. - one gts po band 1/2" thick several feet core missing from box - lots of poor recovery in 360-380
	14 10 10	14 14	19		hard <sup>cherty</sup> siliceous banded phyllites - 1/4" dk grey bands <sup>micro</sup> <sup>arg</sup> <sup>cherts</sup> <sup>disse</sup> <sup>min</sup> <sup>yellowish</sup> <sup>chert</sup> - <sup>blk</sup> - chert fragments in yellowish chert & arg cherts.



Lithologic Log

Code	From		To		Unit		Code		Description
	10	14	16	20	22	23	25	27	
		0		71			1		overburden
		71		239			2		dark gray gtz graph & graph gtz phyllite typically, dark gray to black graph rich. Foliation separating gtz rich lithons, rocks are locally a graphitic quartzite but only over short intervals - locally with greenish calc silicate layers similar to underlying unit but rare. minor diss po through but no concentrations. mostly pers. of S, trans into S <sub>2</sub> .
									239-270 core box missing
		270		1810					Bluish green <sup>chloritic meta ferriferous or</sup> calc silicate rocks(?) with a few <sup>more rich phyl, etc</sup> brownish layers and more common yellowish green to orange layers possibly <sup>stippled</sup> calcite. Black porphyroblasts of chl or bio? are scattered throughout.
									418-433 is below 460' - lighter <sup>more</sup> tawny olive green chl mass phyllite with white quartzose lenses & layers









66L1

Code	From	To	Unit	Code	Description
1	10 14 16 20	22 23 25 27			
	100	100			No core recovery - OR
	100	170			negligible core recovery - mostly broken graph phyllite - probably broken bedrock
	11710	12241			16' core recovery ~ 50% 194'-216' much less elsewhere. Breciated graph phyllite & rusty vein quartz + carb looks like a steep fault zone but the Bxa of shearing is pre D <sub>2</sub> as the gtz veins are clearly crosscutted by S <sub>2</sub> at 195' & 208' Pre D <sub>2</sub> Fault - a thrust ???
	1221	1236			graphitic phyllite - good preservation of bddy & poor S <sub>1</sub> development probably // to S <sub>0</sub> - S <sub>2</sub> poorly developed crosscutting cleavage due to fract cleav with sib // calcite veins
	1236	12395			moderately hard siliceous sandstone (?)
	12395	1280			graphitic phyllite as above - clear S <sub>0</sub> preservation presumably with S <sub>1</sub> parallel S <sub>2</sub> weakly developed as a crosscutting cleavage. Possible F <sub>1</sub> fold in gtz vein at 245' z looking NW !! but pretty poor example good S <sub>2</sub> even there late Bxa at 243' & 263' - 265' with vein gtz Several samples taken to check S <sub>1</sub> /S <sub>2</sub> relations as hard to make out librous S <sub>2</sub> d.L. varies from 60 to 45 ; S <sub>1</sub> varies from 25° in both directions get feeling in brown D <sub>2</sub> M-region with S <sub>1</sub> & S <sub>0</sub> near vert which fits surface picture nearby although S <sub>2</sub> might be a bit steep but not too bad, must entertain possibility that even cleav is actually later than S <sub>1</sub> however.

280 = EOL or end of core at



66L3

Code	From		To		Unit		Code		Description
	10	14	16	20	22	23	25	27	
		0		126					OB
		126		149					graphitic phyllite <sup>1 dark</sup> <sup>same crinoidal: bioclastic</sup> min. (?) limestone - most core gone - this must be Templeman Kluit's 2 hole crinoidal locality - in fact he kindly left one!
		149		158					badly decomposed carb grey phyllite with interbeds of calcareous sandstone & 1/2 greenish grey grit same pyritic green tuff(?)
		158		181					rusty fine grained offshoot of the gtz diorite - strongly flow foliated(?) looks almost like a metavolc
		181		224					Carbonaceous grey phyllite - strongly 1/2 dk color banded at base.
		224		231					diorte vfg a.a.
		231		234					grey phyllite with thin tuff beds(?)
		234		245					diorte a.a.
		245		END					grey phyllite locally very siliceous - sandy layers?

Lithologic Log

Logged By: \_\_\_\_\_

Code	From	To	Unit	Code	Description
1	10 14 16	20 22 23	25 27		
	0	9.0	11		003
	9.0	14.4	12		lt green <sup>to v light green</sup> chl intense phyllite generally un banded on less than 6" scale <sup>if</sup> - green to greenish cream to cream <sup>in surf.</sup> - minor py masses along fln <del>as above but with some py</del>
	14.4	18.1	13		lt greenish grey musc chl phyllite interbanded with darker grey carb musc chl phyllite
	18.1	<del>18.65</del>	14		v light greenish grey chl musc <sup>± graph</sup> phyllite as just above but no highly carb bands
	<del>18.65</del> 18.25	19.6	15		AS 3
	19.6	21.18	16		similar to 4 but with darker green <sup>chitic</sup> meta buff layers & some small frags or porphyroblasts - also chloritized frags or porphyroblasts - seems to be metavolcanic but approaching "normal" and grey phyllite minor bio?? seem a little higher grade than "normal" swim lake phy.
	21.18	23.12	17		AS 3 but with green <sup>chl + tzt + act + small black porphs.</sup> chloritic layers up to 2" <sup>in 068 hole to base of</sup> thick becoming important below 289' <sup>Band 90 0 sum 1%</sup> Banding general on scale of several" to feet.
	23.12	31.62	18		med grey pelite <sup>± carbon</sup> / lt grey / green chl tzt ++ layers as at base of above unit. with fine scale banding of a few thicker green layers. To the pelite mixture - compare with chl tzt stringers in swim lake area looks this may indicate that they are actually layers - not sulphide.
	31.62	38.3	19		lt grey phyllite / greenish chl phyllite hardly any carbonaceous phyllite - chl rx like #2946 not like greener bands just above quite light colored overall.









