390894

GRAPHIC CORE LOG

Scale 1: 1000	Hole No. SHD 2 — Depth m
By	Project
Date	Section
Page 1 of 3	Collar co-ords — RL
	Az. °G — °

5 cm

T.l/Zr	Depth m	Mean Grainsize Mud 0.5 2 8 32 mm	Max. clast ϕ & Structure	Description
	0			Glacial overburden
	20		Brittle sandy fault (ornt?)	QFpD i.Msvg. gy porphyritic rock c̄ 20% ~1-2mm cm to pk org F + 5% ~4mm Q xtals. Q xtals have rdd - embayed edges - have cm to gn inclusions i.e Q is ARA type. Poss ocl Mc phenocrysts c̄ chl - leucoxene alt.
	40			HO/NQ 38.10 m's. V ocl late stage q±c vng. No sd.
	60			
21.4	386255			
	80			
	100			
	120			
	140			
	160			
24.4	386256			
	180			
	200			
	220			
	240			
	250			

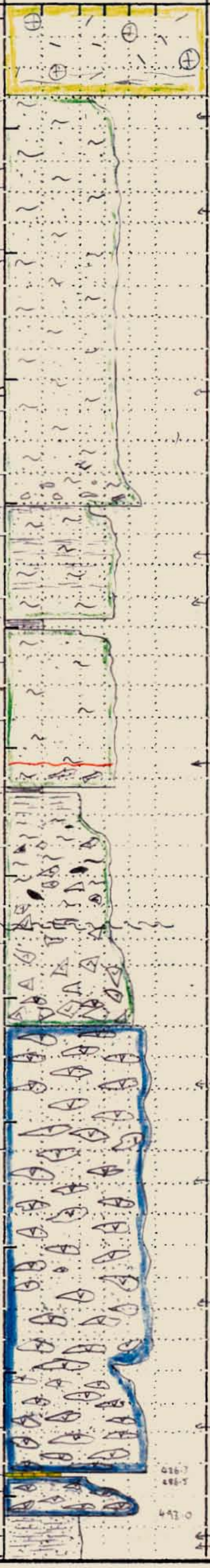
390895

GRAPHIC CORE LOG

Scale 1: 1000	Hole No. SHD2
By	Project
Date	Section
Page 2 of 3	Collar co-ords
	Az. °G

Depth m | 5 cm | RL °

Ti/Zr	Depth m	Mean Grainsize (Mud 0.5 2 8 32 mm)	Max. clast φ & Structure	Description
22.4	386259 / 250			FQPD (cont) Becomes foliated @ 40° ca blw 262m
12.8	385772 / 26-2		42° fr	Dacitic pumiceous volcaniclastic. Highly sericite (± chlorite) - silica - pyrite (± galena, sphalerite, chalcopyrite) - carbonate (Mn?) altered & strongly foliated. Alt^n is predom. pervasive ser c̄ fg intergrowths of variable si or chl. Cb occurs as discrete blebs/irreg vn' as well as dsd in mx. Sulphides as fg dsn & vn' conf to fo, to ~100 thick but gly 2mm-10mm c̄ bnd py. Sulphides & alt^n apparently coeval & all are pre (or poss syn) deformational. Apparent contact 289.5m may be alt^n. Unit interpd as some kind of mass flow c̄ a turbulent bed zone. Upper contact is probably intrusive. Good looking alt^n + sulphides. [PTO]
	270			
12.5	385762			
11.9	385785		45° f	
12.0	385794			
	290			
13.6	385797			
13.3	385817 / 310		50° f	
15.1	385818			
15.0	385821			
15.7	385830			
	330 / 330.5			Dacitic (?) pumiceous volcaniclastic c̄ ~ 50% ashy sltstone intermixed - probably as slump bx. Altd as previous unit. Fg slt has cb (Mn?) c̄ sd in vn. [PTO]
13.0	385846		50° fo conf to f	
14.2	385856		50° f	
	349.5 / 350			Black shale, strongly foliated. Some sulphides but not beds. [PTO]
14.3	385867			Dacitic (?) pumiceous volcaniclastic, highly altd as above. Appears as one discrete mass flow c̄ sandy top 1m. Contains major sulphide stringer @ 372.3 - 372.8 [PTO]
14.8	385876			
	370		major stringer	
	377.1			Black shale, graphitic [PTO]
16.7	385891			Dacitic volcaniclastic. Altered Ashier top followed by pumiceous looking polymict v/claste - altered, followed by clasts of dacite (hyaloclastite) in pumiceous mx. Basal part polymictic c̄ v. occasional clasts of basalt from underlying unit. [PTO]
	390			
22.5	385907		fit (ca 397.2m)	
	410 / 415.0			
			fo 35°	Basalt. Dk gn, fol, monomict FpB bx. Clearly clasts +/o (ca dk gn > ppl) Clasts comprise >60% (gly ~ 90%) of rock c̄ a sandy dk gn basalt mx. Not altd or mzd ... fg c̄ chl filled vl, ... edges. Typical Spilman Basalt B... except perhaps ppl clasts (local feature). More coherent c̄ from 474.7 - 480.5 may represent pillow(?) (c̄ cb amygd (< 1%) as ... vn ... dsd bb' calcite). Lc is defined by change from monomict basalt to polymict D > B.
	430			
44.2	386266 (T3)		fo 35° - 40°	
	450			
			fo 35° - 40°	
	470			
45.6	386265 (T3)		fo 35°	... equally possibly jnts; calc > q vn
	(ht)		486.3 / 488.5	Limestone. Cream c̄ cross-cutting calcite veining. [PTO]
47.5	386269			Basalt bx. W spg ang dk gn B clasts (aa) >60% to 50mm but gly ≤ 20mm. Mg to wlld. mx as dsd bb (to 5%) [PTO]
39.2	385911 / 490		493.0	
17.9	385918		S_0 45°	Siltstones Ashy c̄ some soft sed deformation, some coarser zones c̄ basalt fragments. [PTO]
13.4	385921 / 500		S_0 85-048	



390896

GRAPHIC CORE LOG

Scale 1: 1000	Hole No. SHD 2 — Depth m
By	Project
Date	Section
Page 3 of 3	Collar co-ords — 5 cm — RL
	Az. °

Ti/Zr	Depth m	Max. clast φ & Structure
7.3	500 / 385925	fn 40°
7.1	385933	
7.0	385938	
	520	fn 40°
7.2	385946	
		fn 35°
30.7	385954	
7.5	385957	
	540	
10.2	385964	
41.8	385975	
	560	
17.2	385985	
7.8	385995	
	577.3	
	580	S0 40° cont fn
	386263	
	600	S0 40° cont fn
		S0 50° cont fn
	386262	
	386261	
	620	
	386260	
		S0 50° cont fn
	386259	
	640	
	386258	
	EOH 655	

Description

Rhyolitic pumiceous v/clastic. Interpd @ fw pu bx (FPB) but doesn't have pk clasts typical of (FPB), however, Ti/Zr typical. Mott texture due to blebby bn cb alt^n? Only mn dsd bb' py — v.g. to mg ser altd. c̄ blotchy cm gr gg + gr gg colour

Basaltic bx Dk gn sim to 486.5 - 493.0, fol, Clast rich [PTO]

← Rhyolitic(?) pumice breccia [PTO]

Basaltic (?) bx sim to 526.0 - 529.2 Mn py, neg alt^n [PTO]

Rhyolitic pu bx. Sim to ov R pu bx but not mott. Wk/mod alt^n — cb br as bb' + ser. Sd' gn/sph (org/bn) assd c̄ bn cb vng cont fn [PTO]

Basaltic (?) bx V sim to ov basaltic bx (not main interval)

Dacitic (?) pum(?) bx Difficult to pick [PTO]

Polymict bx ~50% clasts. Clk + gly ~10mm but up to 80mm. Clasts predominantly dk gn, ang (curviplanar) + Fp c̄ v. alt Q interpd as vl fill > gg chy clF. [PTO]

Siltstone/ [illegible] sst. Ashy to slt + fg sst. Gly slt [illegible] ~ 6 [illegible] sst b/w. Mn bx = 597 - 600 Mci to be [illegible]. Ti/Zr indicates [illegible] provenance. Slt/sst are p. gg to p. gn [illegible]. From 580.0 - 599.0 is ~ 90% q vn c̄ inclusions gn clc/ser slt. [illegible] bx from 599.0 to 599.7 is difficult to pick but looks like Fp B (or D) ~ 30% clasts in ashy mx. This slt/sst > bx unit is interpd to be YOLANDE RIVER SEQUENCE