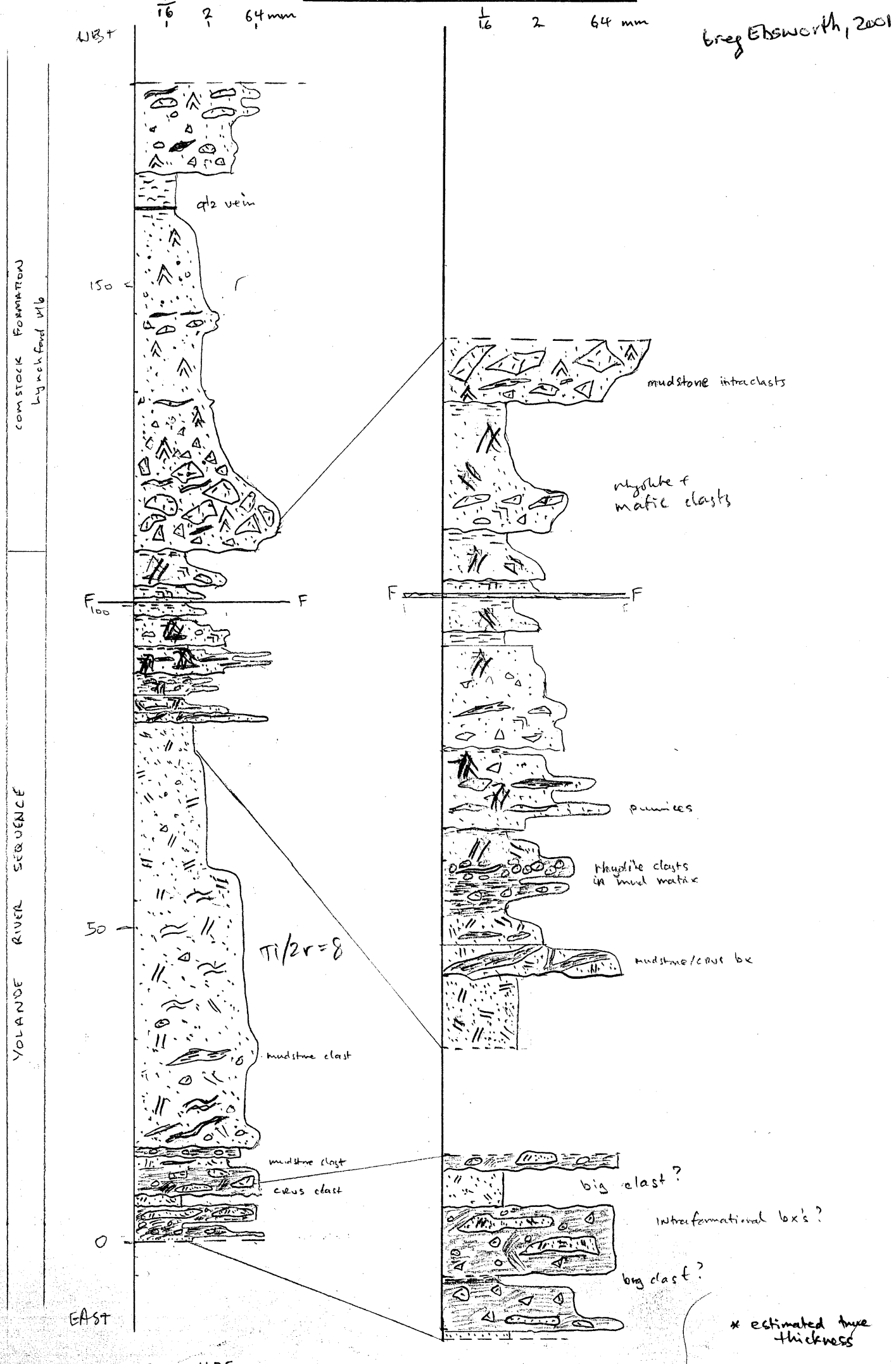
LYNCHFORD DDH LF004

19513

Greg Ebsworth, 2001



* estimated true thickness

TS

DIAMOND DRILL LOG

LOCATION: LYNCHFORD
AMG: E N
HOLE NO: LF004
RL: DIP: AZ:
Page 1 of 6
Logged by: GBE **Date:** 11/12/01

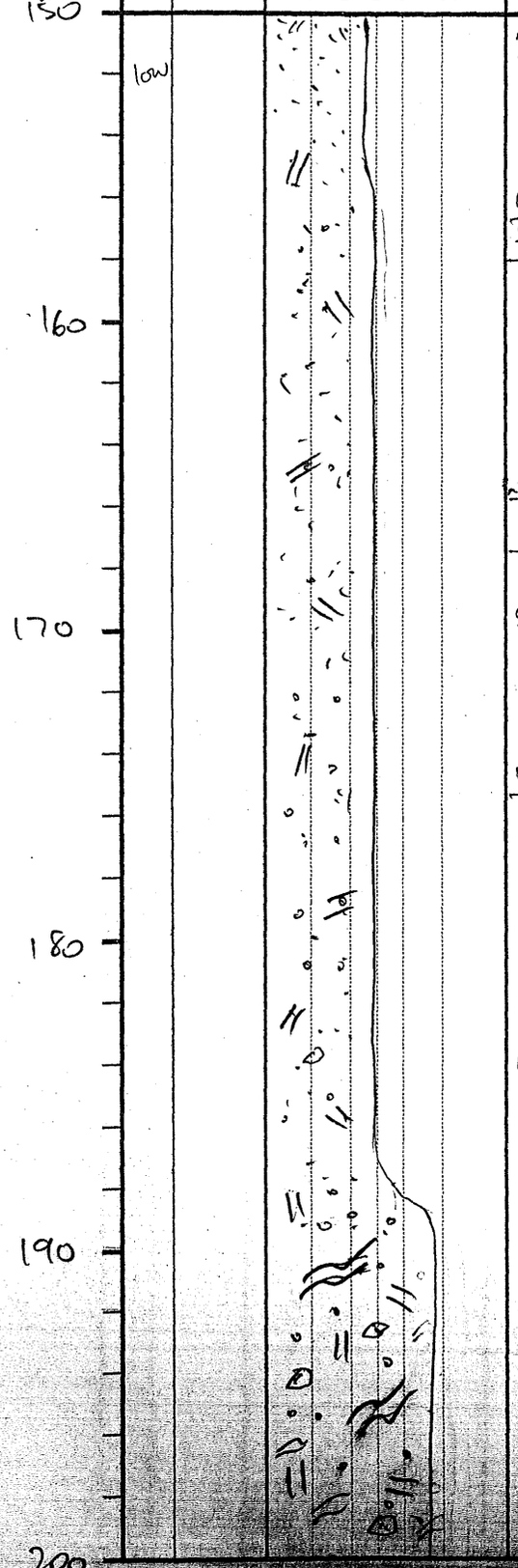
Mag. sus.	Structure	grainsize mm (1/16, 1/2, 2, 8, 64)	ALT	Description
16-20		TRICONE 1.5m; SLST	3.0m	POLYMICTIC LITHIC; XTAL RICH VC BX matrix supported breccia of v. poorly sorted, ang - sub ang clasts in duding:
1-6			S. Oxid	- Q-f-weath. ferromag - phyric felsic vole (phenos 2-4mm)
		ALT		- Alt vc slst? - Q-f-ferromag phyric vesi vole - pumiceous
10-20	Massive		7.0m	Clasts 2mm - 20cm, most 1-3cm, total ~ 1-5%, 5-10% → base
			10.0m	
2-6			S. oxid	Matrix f(q, pyx?) - med grd CRVS
			14.0m	
10-20		SLST		~19.0m Minor 2-5cm vc slst intraclasts
2-5	~36/CA		S. Oxid	21.75m Irreg → sharp - obscured by strong weathering
V low	80/S1? 11/CA		W ser	Grey-green, v-f grd, vitric? vc slst possibly with v. fand felds/qtz xtals. Weakly laminated/bedded.
	80/S1 30/CA 85/CA		very silic	* LF4 16 27.90 vc slst
	Broken 98/CA			29.4m sharp
				30.0 Vuggy qtz veins - broken
low 1-2		* LF4 17 30.30 vc slst	M. chlor patchy ab/h	Green fine grd, intric slst - v fgrd f(q) CRVS - coarse f(q, pyx) CRVS - lithic bx c CRVS matrix - Single depositional unit. Polymictic, with chlonitic clasts (pumice), alt. clasts, q-f-ferromag-phyric red felsic vole clasts, vitric-q-xtl. rich vc SS clasts (of YRS)
2-6				(35-48 - minor 2-20cm qtz-chlor veins/arb.
40	Massive			Ab/k alt is selective on felds. xtals - forms patches to 10mm, giving clast-like appearance
43.5			42.5m M-S ser-py 45m	From 45m get rare 1-4cm, chlonitic clasts - pumice?
12-15				* At ~32.5m ab/h forms bands with thin dark (ant, chlor?) 1-3mm bands
50				

DIAMOND DRILL LOG | **LOCATION:** LYNCHFORD | **AMG:** E N | **HOLE NO:** LF004

RL: DIP: AZ: | Page 3 of 6 | Logged by: GBE | Date: 11/12/01

Mag. sus.	Structure	grainsize mm (1/16, 1/2, 2, 8, 64)	ALT	/Description
				As seen: LF4 | 18 | 102.5 vc bx
			M-S carb chlor	NB Prob lots pumice clasts
				LF4 | 02 | 103.80 *TS — Lam. carb. alt clast in bx & QCRVS core?
10-20	Massive			Note: Lower contact very irregular – but partly parallels lam. in slst below, partly at a high angle to so/si in slst.
	38°/CA		chlor	From 110.3 m → base – clasts 0.5-4cm, less abundant in chlor alt sheared f(q) CRVS matrix
				112.0 sharp, irregular — NOT faulted
	35 so 40/CA		M-S py 113.5 banded-patchy alt/h 117.5 W-M chlor	F-q lithic CRVS – lithic bx (# 60-70% q-f 10-20%)
0.5-3 cm 1-2	Massive 54°/CA	F4|19 114.0 m slst		Mass flow dep. unit, lam. at top. Patchy alt/h in central part → pseudo-clastic texture — MAFIC CLASTS
				*TS LF4|03 119.90m – F-q lithic CRVS/bx
				Common 0.5-1cm x 1-2mm chlor wisps (pumice?) Minor red/pink f. VOLC. lithics, 1-2cm. 114 Samples/s
				120.5 m sharp, irreg
	so/si? 48/CA ~60/CA		lw-M ser	Fine vc slst – F-q-CRVS dep. unit
low				123.30 sharp v. irreg.
low	FAULT		w.m ser	124.0m mainly broken, vc slst → CRVS ? Broken core FAULT – qtz veined – piggy in part
low	broken			124.6 vc slst grades down to thin q-f CRVS at base · sharp, v. irreg
low	massive			126.9 127.8 Purplish vf vc slst sharp, conformable
	Massive 48°/CA			Fine-med F-q lithic CRVS – lithic bx mass flow. Minor cherty ?+felsic volc 0.5-1.5cm Lithics. Rare 2-3cm grey mudstone? intraclasts? Abt 1-2cm cherty?/white q-felsic volc clasts
				134.80m sharp, irregular
low	Massive 60°/CA	sed	Alt/h → felds + lithics	10cm v.f. vc slst & unreg, deformed laminae then f-Q-xtal rich – lithic vc ss – bx (Rare slst intraclasts) *TS LF4|04 137.80m CRVS — 20-30 felds 10-20% QQ
				20-30% 2-5mm alt/h alt q-f-phyric felsic volc clasts – some could be alt felds xtals. Two 5-10cm ragged f(q) phyric pumices
low	Massive 29°/CA			139.80 at 138-138.20 sharp v. irreg. Finely lam. vc slst/mudstone for 0.5m, then 1-70m alt f-q-xtal-pumiceous vc ss grading to mudstone & 1-3cm white (f. volc, chert?) and yellow pumiceous clasts
low	so 37/CA 58°/CA		M ser	144.10m sharp at top – [illegible]
v low	60/CA		M ser CRVS	v.f. to f-CRVS – grades up to vc slst & mudstone
v low			M ser	144.18 sharp
				Interbedded v.f. CRVS & mudstone for 0.10cm
				144.18 v.f. CRVS & mudstone

DIAMOND DRILL LOG	LOCATION: LYNCHFORD AMG: E N	HOLE NO: LF004
	RL: DIP: AZ:	Page 4 of 6
	Description	Logged by: GBE Date: 11/12/01

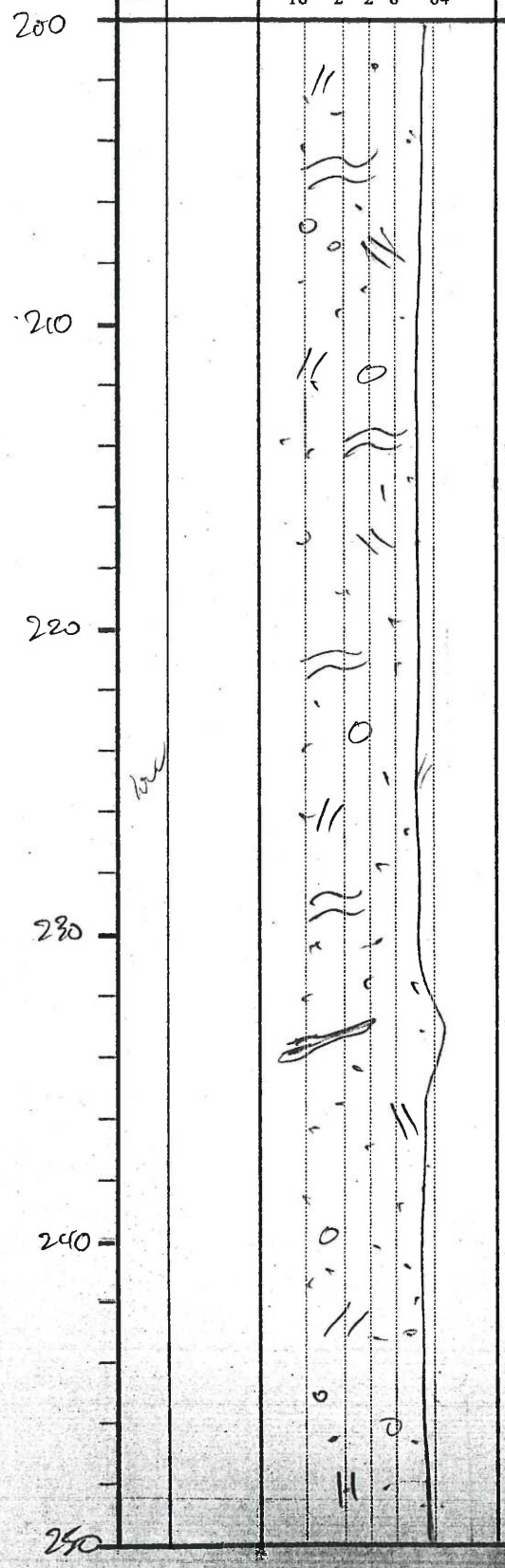


Well sorted, v.f - fine grnd q-f-(v.f.?) vc sandstone to ~155 m, then f-med grnd with prom. qtz xtals to ~ 188.0m where the unit has 30-50% 1-3 mm euh. qtz xtals and minor feldspar inplus 10-20% wispy 1-5cm pumices

Miner - rare 1-2cm white chalcedony (silic. rhyolite?) lithics th'out, esp in pumiceous part.

* LF4|08 169.95 fine chalcedonic xtal-rich ✓

DIAMOND DRILL LOG	LOCATION: LYNCHFORD	HOLE NO:
	AMG: E N	LF004
	RL: DIP: AZ:	Page 5 of 6
	Description	Logged by: GBE Date: 11/12/01



Ti/Zr = 8

* LF4|09 210.5 – typical clasts

Minor 1-2 cm white (felsic vole?) lithics 10 – 20% qtz

LF4|10 222.1 pumice – XRF

LF4|11 228.50 pumice

10 cm mudstone intraclast

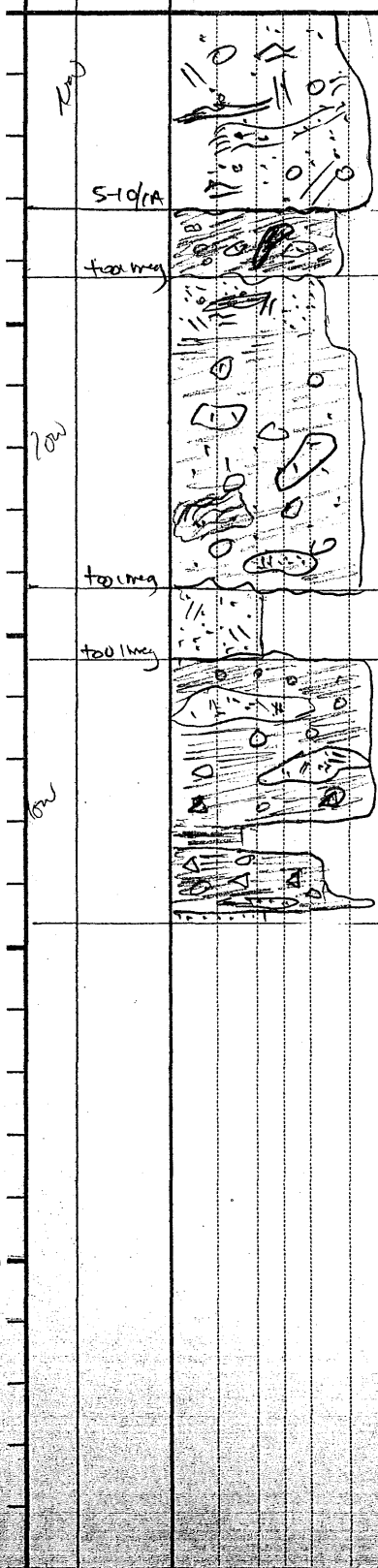
LF4|12 232.0 pumice

LF4|13 247.0 pumice – XRF

LF4|14 248.10 pumice

LF4|15 249.4 pumice

DIAMOND DRILL LOG	LOCATION: LYNCHFORD	HOLE NO: LF004
	AMG: E N	
	RL: DIP: AZ:	Page 6 of 6
	Logged by: GBE	Date: 11/12/01



Common 1-2 cm white lithics

5-8cm recklenitized a-f phyric pumices

256.5m sharp, irregular

Bx of 0.5-2cm white chert/felsic volc clasts (v. poorly sorted) in mudstone matrix, partly disrupted blocks of mudstone

258.55m v. irreg.

Coarse Q(f) xtal-lithic VC SS - fine bx - minor mudstone intraclasts gradational to lithic rich - xtal - mudstone matrix bx at 261.40m. Parts mainly laminated mudstone & soft-sed deform

LF4/05 264.05 mud matrix bx xtals + lithics CRVS clasts

5-10cm clasts of unit below.

268.40 extremely irregular.

well sorted V fgrd, q(f) VC SS clasts at 150-180m BIG CLAST?

270.75m sharp - v. irreg

M-coarse bx of 10-30cm clasts of overlying VC SS plus less 1-3cm white chert/volc clast - to 276.10m in mudstone matrix then mainly mudstone to 276.80m (BIG CLAST?) then 5-10% 0.5-3cm white chert/volc clasts increasing to 20-30% in lower metre where are most 1-2cm lowest 30cm - fine grey silic. sandstone ± single clast of same? just above contact.

279.4 EOH

Note: The facies seen from 150m-EOH ie: (Pumiceous lithic bx - q(f)(CRVS) and (rhyolite - mud matrix bx) and (mudstone) are comparable to McPhie + Allen's (1992) White Spur/S.S.Gp. facies association (cf Penhalton + Corbett paper?)