GRAPHIC CORE LOG		Hole No. SHD-10	Depth 574.0 m
Scale	1:1000	Project "SOUTH HENTY" EL 8196	
By	GRANT MACDONALD	Section	
Date		Collar co-ords	L.
Page	1 of 3	Az. °G	5 cm

Depth m	Mean Grainsize Mud 0.5 2 8 32 mm	Max. clast φ & Structure	
		← So 0°	Core from 0.80m.
		← So 40°	Siltstone. Light grey green / green well bedded (beds
20		← So 5°	~5mm to 50mm gtg) defined by narrower darker green
		← So 10°	coarser siltstone / sandstone beds between broader
		← So 0°	lighter finer grained beds. Towards the bottom of the
			unit the coarser grained beds contain v. occasional Q
			xtals similar to those in underlying sst / bx. Core
40		← So 20°	contains numerous microfaults + fractures c v. fine qtz, chl, cb
		← So 15°	and/or py vnts. From 32.2m - 35.3m is a sg foliated zone c
			foliation sub-parallel to core axis, slickensides indicate strike
			or obligue slip. V. puggy zone from 54.5m - 54.6m [PTO.]
55.0			Rhyolitic volcaniclastic bx. Q>>F xtal rich c
60			~10% sub-rounded QFpR (up to 30% from ~72m -
			100m) in a matrix c 50% - 70% Q xtals +
			remainder F. Q xtals are 2-3mm + have chl
80			inclusions. F are pk/org + ~2mm. QFpR clasts
			are pk/org, occasionally gn (chl). The mx is
			v.v. chloritic in part. Some bleaching alb/chl
100			alt° from 91 - 155m. Zone of cubic py
			from 135.3 - 135.8m, otherwise only v. mn
110.6 HQ/NQ			pyrite.
120			
140			
			Fault 155.0m - 156.0m
		faulted contact @ 15-30° ca	
160			Rhyolitic volcaniclastic bx. Similarities but also
			significant differences across the fault. Grey green
			(due to more pervasive chl alt° of mx) Q>>F xtal
180			mx c QFpR clasts but clasts g/y < 10mm c
			only occasional larger (to 100-200mm) clasts.
190.4			Unit coarsens up. below 181m.
			Polymict (slump) bx. Package of large clasts/rafts
200			of QFpR (to 5m's) in intermixed gn sst, QF xtal
			lithic (QFpR) sst/bx + carbonate (fossiliferous but not
213.8			fizzy). Relationship suggestive of formation by [PTO.]
220			QFp Rhyolite. Pk/org Q (~10% to 4mm)
			F (~5-8% to 3mm) porphyritic rhyolite. Q xtals
228.2			have chl inclusions.
~234.0			Bx. Hyaloclastic in part but also QF xtal / QFpR bx.
240			QFpR aa

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GRAPHIC CORE LOG	Hole No. SHD-10	Depth m
Scale 1:1000	Project	
By GRANT MACDONALD	Section	5 cm
Date	Collar co-ords	RL
Page 2 of 3	Az. °G	°

Depth m	Mean Grainsize Mud 0.5 2 8 32 mm	Max. clast φ & Structure	Description
			gy. cherty. slt. ± peperitic
270			
		275.5	Rhyolitic volcaniclastic bx ± sub-angular to sub-rounded QFpR clasts in Q, F xtal rich mx. Similar to zone from 206.0 – 213.8 m.
290			Cb clast (p.pink due to hmt) from 288.0 – 288.5 m similar to cb from 210.7 – 211.3 m
		303	QFpR
310			
		319.5	
		322.8	Possible hyaloclastic bx QFpR
330			
350		Fault @ 350 m @ 85° ca	Fault is healed ± py
370			
390			
410			
		Fault @ 426m @ ~5° ca	Below 420 m core becomes pale green / cream ± ghosted Q xtals due to silicification, probably associated ± faults
430			
450			
		Fault @ 470.5 m @ 5° – 10° ca	
470			
474.2		So 28° ca So 18° ca	Sandstone Ghosted but gritty Q, F xtal sst. > slt.
		So 28° ca So 30° ca	Siltstone / sandstone. Grey green ± Q, F xtals (< 5%) in silty mx
487.8			QFpR Possibly quenched margins. Upper + lower contacts @ ~10° ca.
490			Siltstones / sandstones as for 474.2 – 487.8 m.
493.5		So 45° ca	
496.2			QFpR. Possibly quenched margins

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GRAPHIC CORE LOG	Hole No. SHD-10	Depth m
Scale 1:1000	Project	
By	Section	
Date	Collar co-ords	RL
Page 3 of 3	Az. °G	°

5 cm

Depth m	Mean Grainsize Mud 0.5 2 8 32 mm	Max. clast φ & Structure	Description
510.2			Polymict (soft sediment) bx ± intermixed gn slt, gn sst/bx (Q-F xtal ± QFpR clasts) ± larger QFpR clasts (aphyric pale colored)
520		So 20° ca So 28° ca So 20°-25° ca So 35° ca So 40° ca So 38° ca	
531.0			QFpR Silicified ± p. pink to p. gy gn smoky colour. Numerous fine brittle fractures @ 85° ca. Faulted lower contact
540			Major fault @ ~ 15° ca from 5462-547m (bxn continues to 544.8m)
			Sandstones Silicified Q F xtal ssts [PTO]
			V dark grey shaley siltstone [PTO]
			Quartz pebble conglomerate [PTO]
560		So 25° ca	V. Dark grey shaley siltstone [PTO]
			Quartz pebble conglomerate [PTO]
E.O.H. 574.0m			Polymict epiclastic ± rounded QFpR and Precambrian metasediment clasts in a Q xtal rich mx [PTO]

← Mt Julia Member of Comstock Fm.

Zig Zag Hill Fm