HRD1 - RELOGGED GEOLOGY

FROM	TO	LITHO	COLOUR	GRAINSIZE	UNIT	SAMPLE	COMMENTS
0.00	18.70	SST	or-gy		WSF		wthd - partially wthd
18.70	31.90	SST	gy-bn	cg	WSF		cg qtz; occ. bk shl rip up clasts, 'cm scale qtz-carb veins
31.90	37.70	SST/SLT		fg-mg	WSF		interbedded sequence, 'mm scale qtz-carb veins, broken zone
37.70	40.70	SST	gy	cg	WSF		
40.70	43.00	FDR					broken zone
43.00	66.40	SST	gy-bn	cg	WSF		qtz; lots of 'mm scale qtz-carb veins
66.40	72.40	SST	pk-bn	vcg	WSF		qtz; gradational contact to interval above - younging up hole
72.40	82.60	SST	gy	cg	WSF		qtz; qtz-carb veining
82.60	85.95	SST	gy	vcg	WSF		qtz; qtz-carb veining
85.95	89.70	CON	gy	peb	WSF		largely qtz - lithic (incl. blk shl) fragments
89.70	92.95	CON	gy-bn		WSF		clasts size averages 2cm dia at the base to 1cm at the top, some clasts are up to 6cm dia. Qtz-fsp-lithics-porphry clasts, sub-ang/sub-rnd
92.95	93.40	FDR			WSF		basal faulted contact, with conglomerate, fg sediments incl. shl/slt
93.40	102.30	SLT	gy		WSF		lots of qtz-carb veins, incl. 5cm qtz-py vein @ 99.60m
102.30	103.80	FDR					broken zone, disrupted gyslt / bkshl bdg, qtz-carb veins (cm)
103.80	121.40	SLT/SHL/SST	gy-bk	mg	WSF		interbedded zone, thickness <= 2m
121.40	125.90	SST	gy	fg-mg	WSF		qtz
125.90	128.50	SHL/SLT	bk-gy		WSF		zone of oxidisation (salting) - fg pyrite? In friable zones
128.50	130.60	SLT	gy		WSF		
130.60	139.30	SLT	gy		WSF		zones with numerous large qtz-carb veins and microfaults, incl. 131.36-131.7 qtz-carb vein & 132.6-132.7 breccia zone incl. 2cm pyrite clast
139.30	155.65	SST/SLT	gy	fg-mg	WSF		qtz; typical bed thickness <10cm
155.65	156.80	FDR					broken zone
156.80	163.00	SST/SLT	gy	fg-mg	WSF		qtz; typical bed thickness <10cm
163.00	189.50	SLT/SHL	gy-bk		WSF		zones of pyritic shale (oxidising), which has previously been cut, zones typically <= 2m wide
189.50	192.60	SHL/SLT	bk-gy		WSF		heavily oxidised and sheared, brecciated @ base
192.60	195.40	SST/SHL	gy-bk	mg	CONT		contact; qtz-carb-gal veining, mostly sst with blk shl incl. (<= 0.5cm)
195.40	197.50	SST	gy	cg	TS		qtz-fsp; chaotic microveining
197.50	209.90	ALT SST/CON	wh-pk	cg/peb	TS	337025 (200.7-200.95)	fsp>>qtz; some foliated zones, blebs of galena; qtz-carb±slf (py-gal) veins (PasEx-1994 - sample 037476 ticket), well sorted - largely clast supported

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FROM	TO	LITHO	COLOUR	GRAINSIZE	UNIT	SAMPLE	COMMENTS
209.90	218.00	CON	wh-bk	peb	TS		qtz>fst; increase in black groundmass, less veining than above (some 'mm gal-carb veins), some sericite patches
218.00	218.80	XXX			CONT		core loss (fault?)
218.80	233.90	ALT BRE	pk-or		CVC		fsp; fabric - bk wispy veinlets, sometimes developing a stockwork texture which is sulphide bearing, some zones of disseminated bleby pyrite patches, sericite patches common, includes angular to sub-angular chert clasts (up to 3cm dia)
233.90	236.40	ALT BRE	or		CVC	337028 (235.8-236.0)	fsp; large grains ('cm scale) disprupted by wh qtz veins (<=0.5cm thickness), pumiceous, Mn alteration
236.40	238.70	BRE	bk-pk		CVC		fsp; cg clasts fsp phyric with dominant bk groundmass (foliated?), pumiceous
238.70	241.70	BRE	pk-wh	cg	CVC		fsp>>qtz
241.70	255.50	BRE	bk-pk-wh	vcg	CVC		fsp-ser(-qtz?)
255.50	256.90	BRE	pk		CVC		ser-fsp-chert clasts in a veined breccia (clasts <3cm dia)
256.90	260.10	FDR	pk		RF		cataclastic breccia zone of above units, some crushed pyritic zones
260.10	260.57	FDR	bk		RF		fault zone containing shl from below
260.57	278.30	SHL/SST	gy	fg	SQ		interbedded, sst - dolomitic, lots of qtz-carb microveins
278.30	279.80	CON	cm		SQ		conglomerate bed - lithic dominated clasts (<=10mm)
279.80	295.70	SST/SLT	gy	fg	SQ		interbedded qtz-mic sst / slt, some minor conglomerates <= 10cm thickness

LITHO: SHL - shale; SLT - silststone; SST - sandstone; CON - conglomerate; BRE - breccia (pumiceous); ALT - altered; FDR - fault disrupted; XXX - core loss

COLOUR: bk - black; bn - brown; cm - cream; gy - grey; or - orange; pk - pink; wh - white

GRAINSIZE: fg - fine; mg - medium; cg - coarse; vcg - very coarse; peb - pebble

UNIT: WSF - White Spur Formation; TS - Transitional Sequence; CVC - Central Volcanic Complex; SQ - Stitt Quartzite; RF - Rosebery Fault Zone; CONT - contact

(Samples submitted for Petrology &/or Pb-Isotope Analysis)