



<b>ASSAYS</b>				
<b>dFrom</b>	<b>dTo</b>	<b>sampleNo</b>	<b>Au</b>	<b>Comments</b>
215.33	216.00	z16520005	0.00	
238.00	238.32	z16520006	0.00	
243.00	243.91	z16520007	0.00	Carb
253.00	254.00	z16520008	0.00	VCSH
254.00	255.00	z16520009	0.00	VCSH
255.00	256.00	z16520010	0.00	sr alt VCCG
256.00	257.00	z16520011	0.00	sr alt VCCG
325.25	326.25	Z16520012	0.00	vcss
326.25	326.55	Z16520013	0.00	vcss
326.55	327.25	Z16520014	0.00	vein
327.25	327.60	Z16520015	0.00	vcss
327.60	328.35	Z16520016	0.00	vein
328.35	329.40	Z16520017	0.00	vcss
329.40	330.65	Z16520018	0.00	vcss
330.65	331.65	Z16520019	0.00	vein
331.65	332.65	Z16520020	0.00	vcss
332.65	333.65	Z16520021	0.03	vcss
337.50	338.50	Z16520022	0.03	vcss
338.50	339.55	Z16520023	0.02	vcss
339.55	340.00	Z16520024	0.00	vcss
340.00	341.00	Z16520025	0.05	vcsh
341.00	342.00	Z16520026	0.00	vcsh
342.00	343.00	Z16520027	0.00	vcsh
343.00	344.00	Z16520028	0.00	vcsh trace gal
344.00	345.05	Z16520029	0.03	minor gal-pyr
345.05	345.20	Z16520030	0.00	vein+gal-sph
345.20	346.00	Z16520031	0.02	vcss
346.00	347.00	Z16520032	0.03	vcss
347.00	348.00	Z16520033	0.02	vcss
348.00	349.10	Z16520034	0.01	vcss
349.10	350.00	Z16520035	0.04	vcss
350.00	351.00	Z16520036	0.00	si alt vcss
351.00	351.55	Z16520037	0.02	si alt vcss
351.55	352.50	Z16520038	0.00	vcsh +ser
352.50	353.30	Z16520039	0.00	vcsh +ser
353.30	354.30	Z16520040	0.00	vcsh +ser
354.30	355.30	Z16520041	0.00	vcsh +ser
355.30	356.25	Z16520042	0.00	vcsh +ser
356.25	357.30	Z16520043	0.00	vcss + ser
357.30	358.30	Z16520044	0.00	vcss + ser
358.30	359.30	Z16520045	0.00	vcss + ser
359.30	360.30	Z16520046	0.00	vcss + ser
360.30	361.30	Z16520047	0.00	vcss + ser
361.30	362.30	Z16520048	0.00	vcss + ser
362.30	363.30	Z16520049	0.00	vcss + ser
363.30	364.30	Z16520050	0.00	vcss + ser
364.30	365.30	Z16520051	0.00	vcss + ser
365.30	366.30	Z16520052	0.00	vcss + ser
366.30	367.30	Z16520053	0.00	vcss + ser
367.30	368.30	Z16520054	0.00	vcss + ser

ROCKTYPE					
dFrom	dTo	formation	rocktype	contactlower	comments
0.00	16.00	LYM	LTUF	GR	weak/mod oxidised and weathered saprock, minor goethite along fractures, coarse angular clasts up to 4cm
16.00	26.30	LYM	LTUF	GR	Ltuf, coarse grained crystal rich lithic breccia. Coarse grey sand matrix, occasional >4cm lithic clasts (rhyl.sstn)
26.30	36.60	LYM	LTUF	GR	fine grained ltuf/sand, top of mass flow? Younging up-hole?.
36.60	57.00	LYM	LTUF	GR	med grained xtal rich lithic sstn, intermittant 1.5cm rhyt clasts with albite alt halo, gradual grainsize increase DH
57.00	61.00	LYM	LTUF	GR	as above, pale green, slightly leached chlorite altered halo surrounding small fault at 58.7m
61.00	80.85	LYM	LTUF	SP	medium grained grading to coarse grained at base, grey with patchy albite altered clasts, sharp angular fragments
80.85	82.20	LYM	LTUF	GR	fine grained top of bed, patchy pervasive albite alt. Younging up hole
82.20	100.00	LYM	LTUF	GR	medium grained grading to coarse grained at base, grey with patchy albite altered clasts, sharp angular fragments
100.00	123.80	LYM	LTUF	FT	coarse grained crystal rich sstn, large angular lithic fragments, (ryl, sstn) very hard, Lynchford tuff
123.80	125.50	LYM	FTXX	FT	broken ground, minor faulting and pugg on fracture surface
125.50	136.10	LYM	LTUF	GR	as above above but slightly leached and paler in colour, less albite
136.10	138.00	LYM	LTUF	GR	medium grained sstn, dark grey/black, homogenous, equigranular.
138.00	147.42	LYM	LTUF	SP	grey coarse grained poorly sorted, patchy albite alteration, albitic clasts
147.42	150.25	LYM	CARB	SP	carb breccia, white/pink massive carb in grey FG carb rich matrix. Matrix supp.
150.25	152.10	LYM	VCSH	SP	FG, siltstone, grey/black
152.10	160.03	LYM	LTUF	SP	grey, med/coarse grained, no albite, dark chl clasts up to 6mm,
160.03	169.25	CVC	VCCG	SP	light grey, med/fine grained, irregular foliation wraps massive carb clasts up to 4cm, (sedimentary flow structures?)
169.25	170.22	LYM	CARB	SP	Banded wavy carb, minor chl, red rhodochrosite, minor jspr,
170.22	175.35	LYM	CARB	SP	banded, interbedded carb + FG sand, blebby-poddy carb texture, weak chl in sand
175.35	178.00	LYM	CARB	SP	massive carb, white with pink blebs up to 4cm, trace jspr <2mm
178.00	179.00	LYM	SISL	SP	v. FG cherty siltstone, v. fine relict bedding, light-grey-green, siliceous
179.00	181.50	LYM	VCSS	SP	intensely carb sstn, pale grey, trace chl
181.50	189.70	LYM	VCCG	SP	v. coarse, matrix supp bx-cg, subangular-angular clasts up to 15cm, distant graded bedding, matrix grades from 0.5-5mm, polymictic, qtz rich clasts,
189.70	190.00	LYM	VCSH	IR	v. fg cherty siltstone, fine laminations, soft sediment slump-deformation structures, faulted, irregular, light grey
190.00	195.40	LYM	VCCG	IR	mild sr, wk chl, squished texture, soft sed deformation, patchy carb bands+ irregular laminations

dFrom	dTo	formation	rocktype	contactlower	comments
195.40	198.78	LYM	VCSH	IR	v. fg silt-sine sand, dark grey, random rafts of coarse clasts (up to 10cm), hard-highly siliceous
198.78	200.58	LYM	VCCG	IR	poorly sorted matrix supported eg. clasts up to 5cm, small zones of min py. v. high carb alt. minor small jasper fragments, sandy matrix, min chl alt
200.58	214.28	LYM	CARB	IR	Does not quite fit the carb category: carb-jspr-bx, intense bx, jspr clasts up to 8mm, high carb - calcite-rhodochrosite, large VCSS/CG bx fragments, fragments deformed/twisted. Messed up!
214.28	215.53	CVC	VCCG	SP	perv carb alt VCCG, dec in carb, minor wk bx, min chl alt, min jspr frags
215.53	216.30	CVC	VCCG	SP	mod sorted polymictic vccg, subrounded-subangular clasts, sand matrix, small pyritic zone along upper contact
216.30	238.32	LYM	LTUF	SP	feldspar-lithic volcanoclastic, high relict feldspar xtals up to 3mm, subangular-subrounded polymictic gravel-pebble clasts, chl-ab-carb alt, mod magnetic response
238.32	239.63	CVC	VCSS	BK	silt-fine sand, dull grey, occ larger clasts (40mm), mod chl-sr alt, small soft sed slump structures, fine py along fractures and small blebs
239.63	243.90	CVC	CARB	FT	Carb + zones of DVSS, min chl alt, min py, carb-rhodochrosite banding
243.90	244.34		FTXX	FT	sr rich fault rock, intense pugg
244.34	245.25	CVC	CARB	GR	sheared carb zone, bx carb-rhodochrosite?, jsp fragments (<5mm), chl-sr rich zone
245.25	255.00	LYM	VCSH	GR	Banded carb-rich VCSH, deep purple coloured, small zones (beds?) of feldspar-rich VCSS, minor bx, min chl-sr alt, small fractures + faults offset layering
255.00	258.00	LYM	VCCG	FT	banded subangular matrix supported monomictic vccg, strong sr alt - texturally destructive in parts, mod-strong chl alt of larger clasts, mod carb bands + some matrix alt, sand matrix
258.00	258.40	LYM	FTXX	FT	Possibly FTXX? Zone of drillers sludge, followed by bkgr, may be core loss?
258.40	260.33	LYM	VCSS	SP	chl-cb-sr alt VCSS, some carb+jspr zones, mod sr along fol planes
260.33	271.70	CVC	VCSS	GR	dark grey/green mod foliated MG sstin, chl + minor ser alt
271.70	275.30	CVC	VCSS	GR	reduced chl, light brown spotty clastic appearance. Flattened clasts, weak/mod fol, diffuse clast boundaries up to 4mm
275.30	277.35	CVC	VCSS	GR	finer grained silicious cherty material, some rafts of med grained chl sstin, thin fe rich carb veinlets cross cut foliation. Shear at 276.5 surrounded by silicious/sericitic alt.
277.35	294.00	CVC	VCSS	GR	med grained, weak ser alt, elastic texture resmbles altered ltuf
294.00	302.95	CVC	VCSS	GR	as above, increased leaching
302.95	314.60	CVC	VCCG	GR	increased grainsize, wavy fabric, increased ser
314.60	317.50	CVC	RHBX	SP	light brown yellow qtz rich rhy breccia?.
317.50	318.85	CVC	VEIN	SP	qtz-carb vein low angle to CA, Fe rich carb (oxidation)

dFrom	dTo	formation	rocktype	contactlower	comments
318.85	326.55	CVC	RHYL	IR	rhyl/rhbx? Silicious hard light grey. Feather-like hairline carb veins/fracture fill <4mm (oxidised brown) spherulites?cutting across silicious clasts, interesting texture. Aligned and dendritic orientaion
326.55	327.25	CVC	VEIN	IR	coarse crystalline qtz vien with interstitial brown oxidised carb.trace chl
327.25	327.60	CVC	RHBX	SP	grey sstn/rhbx blebby brown carb
327.60	328.35	CVC	VEIN	IR	coarse crystalline qtz vien with interstitial brown oxidised carb.trace chl
328.35	330.68	CVC	RHYL	IR	light brown yellow qtz rich rhyl breccia?.
330.68	331.65	CVC	VEIN	IR	massive qtz-minor interstial brown carb, minor irregular chl clots
331.65	339.55	CVC	VCCG	GR	light brown/yellow, spotty apperance - brown carb, silicious
339.55	345.05	CVC	VCSH	SP	light grey, minor ser-carb alt, sedimentary lamination- irregular wavy, very hard/silicious, minor blebby galena-pyr
345.05	345.20	CVC	VEIN	SP	dev'n qtz minor coarse galen-sphalerite
345.20	349.16	CVC	VCSH	GR	light grey, minor ser-carb alt, blotchy mottled appearance, cherty,
349.16	350.00	CVC	VCSS	SP	darker grey med grained ser-qtz altered sstn, trace chl
350.00	351.53	CVC	VEIN	GR	pervasive silicious alteration, dev'n qtz, trace cpy
351.53	353.30	CVC	VCSH	GR	light grey weak ser alt. Trace small blebs <5mm gal-sph
353.30	356.25	CVC	VCSS	GR	increased grainsize, intermittant pyr blebs, relict granular texture, weak ser alt.
356.25	385.00	CVC	VCCG	GR	mild ser alt volc bx
385.00	405.25	CVC	VCSS	SP	grey med grained, vweak ser, weak chl alt increasing, becoming slightly coarser
405.25	405.75	CVC	VCCG	SP	carb-ser rich breccia. Matrix supp,
405.75	409.04	CVC	VCSS	GR	med/coarse grained wk chloritic sstn, trace carb
409.04	409.60	CVC	VCSS	GR	FG grey sstn
409.60	414.05	CVC	VCCG	GR	grey clast supp volc breccia
414.05	419.05	CVC	VCSS	GR	FG grey sstn few carb veins resembles a basalt
419.05	419.70	CVC	VCSS	SP	coarse grained chloritic sstn, minor caarb at base
419.70	420.35	CVC	VCSS	GR	weak ser-carb alt vcss, pale grey coloured
420.35	444.85	CVC	VCCG	GR	coarse grained mildly chloritic basalt/dacite breccia? Elongated clasts
444.85	450.95	CVC	VCSS	GR	FG dark grey sstn, hard, chloritic, trace carb veinlets
450.95	483.50	CVC	VCCG	SP	poorly sorted basaltic/dacitic breccia, irregular dark elongate FG clasts in mild sericitic light grey matrix
483.50	486.85	CVC	VCSH	SP	cherty light grey zone, irregular wavy sedimentary laminations approx 60 deg to CA
486.85	497.70	CVC	DACI	GR	med grained dark grey sstn/lava? Gradual increase in alteration, spotty white carb amygdales? Alt

dFrom	dTo	formation	rocktype	contactlower	comments
497.70	549.75	CVC	DACI	SP	very hard silicious VFG felsic lava.spherical and irregular zoned amygdales, calcite inner, Fe carb rim? Increasing in abundance down hole
549.75	555.50	CVC	VCSH	SP	peperitic contact, highly silicious cherty banded sediment.
555.50	567.85	CVC	VCCG	GR	poorly sorted pumice breccia?, polymict clasts, well graded bedding from med/coarse sand to angular fragments up to 5cm
567.85	574.80	CVC	VCCG	GR	as above, series of graded beds.
574.80	574.98	CVC	VCSH	GR	fine grained fine laminated highly silicious siltstone smale scale soft sediment folding
574.98	576.00	CVC	VCSH	GR	rafts of laminated silicious siltstone in Dacite lava? Matrix
576.00	598.50	CVC	DACI	SP	homogenous highly silicious dacite/rhyolite lava, amygdaloidal-spherical and irregular , zoned fe carb rims, calcite center, grey colour
598.50	602.90	CVC	VCSH	SP	peperitic zone? Rafts of FG siltstone up to 30cm intermingled with coherent lava?, apparent rotation of siltstone rafts
602.90	608.20	CVC	VCSS	SP	laminated grey silicious siltstone grading to sandstone, well defined soft sedimentary stuctures - folding and slumping on cm scale, 0.5 to 1cm darker grey laminations. Several graded silt/sandstone beds
608.20	649.00	CVC	VCCG	GR	poorly sorted chloritic clastic pumice breccia, 5mm intermittant chl rich clasts gradually increasing Down hole, slight increase I grainsize DH
649.00	652.80	CVC	VCCG	GR	sericitic altered zone, foliation sub parallel to CA, pale yellow colour
652.80	654.00	CVC	RHYL	GR	very hard silicious light grey coherent lava,
654.00	659.80	CVC	RHBX	GR	rhyl breccia, clast supported, minor albitisation of clast boundaries
659.80	667.90	CVC	RHYL	SP	grey mildly chloritic aphyric lava of rhyl/daci composition
667.90	673.80	CVC	RHBX	GR	angular fragment 3-4mm, weak albitisation of clasts
673.80	681.00	CVC	RHYL	SP	FG aphyric lava, dark grey, silicious, minor brecciation
681.00	687.00	CVC	VCCG	SP	sericitic, abundant 2-4mm qtz clasts weak pink colour in sericitic matrix
687.00	689.60	CVC	ANDS	SP	grey/green chloritic FG lava, silicious,
689.60	705.45	CVC	VCCG	SP	sericitic poorly sorted, increasing in chl DH, diffuse clast boundaries, clasts 1-5mm with occasional up to 15mm
705.45	707.00	CVC	VCSH	SP	cherty silicious siltstone, V hard, light grey, weakly chloritic
707.00	740.00	CVC	VCCG	SP	sericitic poorly sorted, increasing in chl DH, diffuse clast boundaries, clasts 1-5mm with occasional up to 15mm
740.00	740.80	CVC	VCSH	SP	silicious siltstone, sedimentary laminations, light grey
740.80	741.80	CVC	VCCG	SP	contains clast of vesh up to 20cm, sericitic, poor sorting
741.80	756.70	CVC	ANDS	EH	dark grey/brown rhyolite/andesite lava, aphyric, FG V hard, vesicular at upper contact for 0.5 m, increasing brown staining DH (Fe carb)

STRUCTURE						
depth	structure	width	coreAngle	dipAzimuth	stDip	comments
2.50	BKGR	1,000.00				moderately broken weathered saprock
18.00	JOIN	1.00	38			
27.40	FOL3	1.00	35			no joint infill
34.80	FOL3	1.00	35			
37.00	BEDD	10.00	32			weak fine scale bedding
43.20	FOL3	1.00	65			trace crystalline pyr on fol surface
48.20	FOL3	1.00	30			
58.70	FAUL	1.00	35			small fault surrounded by 2m of moderate chl alt and leaching in surrounding rock
61.00	FOL3	1.00	55			
72.00	JOIN	1.00	48			
80.90	CONT	1.00	30			
88.40	JOIN	1.00	65			
98.10	JOIN	1.00	50			
109.80	JOIN	1.00	40			
119.70	JOIN	1.00	55			
124.20	FLT3	700.00			25	shallow fault 25 deg?? Puggy gravel and moderately broken ground, FG
135.00	JOIN	1.00	40			
150.25	CONT	1.00	36			
162.10	JOIN	1.00	65			
174.96	FOL1	1.00	18			planar fabric from matrix within carb
178.00	JOIN	1.00	35			
182.20	FRAC	1.00	32			series of // thin carb filled fractures
189.78	BEDD	1.00	45			~45, bedding soft-sediment deformed
198.61	JOIN	1.00	80			carb filled joint
215.33	CONT	1.00	22			contact, py band along contact
217.43	FAUL	160.00	30			bkgr, min pugg
224.10	FAUL	100.00				bkgr, min pugg
226.43	FAUL	2.00	25			v. small brittle fault, hard ground, little pugg.
238.32	CONT	1.00	60			~60,
241.53	BAND	1.00	40			banding within carb, possibly bedding?
243.91	PFT3	430.00				Large puggy fault
249.42	BAND	1.00	12			~12, presumed bedding within carb-jspr
254.85	PUGG	170.00				very puggy fault, adjacent folding indicates small shear zone
255.52	FOL1	1.00	25			
257.50	FOL2	1.00	28			
260.37	FOL1	1.00	34			
264.60	FOLD	50.00				isclinally folded qtz vein within weak/mod foliated unfolded sediments
275.00	FOL3	1.00	32			
276.70	SHER	40.00	28			qtz-ser/clay altered halo surrounding shear
284.30	FOL3	1.00	36			

depth	structure	width	coreAngle	dipAzimuth	stDip	comments
288.80	FOL3	1.00	38			
298.30	FOL3	1.00	52			
314.60	SHER	3.00	34			mica along shear plane
326.55	VEIN	700.00				irregular, Qtz-Fe carb rich vein, trace chl
327.60	VEIN	650.00				qtz-carb(Fe)
330.65	VEIN	1,000.00				qtz-carb(Fe)
341.30	SHER	2.00	14			low angle weak shear
345.05	VEIN	150.00				dev qtz vein, minor gal-sph
349.20	FOL3	1.00	31			
350.00	VEIN	1,500.00				pervasive qtz vein/alt
357.40	FOL3	2.00	52			
362.50	SHER	2.00	5			v low angle weak shear
382.40	JOIN	1.00	72			perfect
391.50	FOL3	1.00	32			curved fol plane
396.00	JOIN	1.00	40			
411.90	VEIN	30.00				irregular anastomosing carb vein
419.70	VEIN	40.00				irregular anastomosing carb vein
429.10	JOIN	1.00	34			
444.80	FOL3	1.00	16			
446.00	FOL3	1.00	6			v low angle fol/bedding
458.40	SHER	3.00	27			weak low angle shear, minor chl along plane
473.50	PUGG	2.00	59			tiny grey puggy fault
479.00	SHER	5.00	10			low angle shear, minor ser-clay along plane, curved plane
483.50	SHER	10.00	10			low angle shear, proximal dev'n qtz veining and ser alt, trace dissem pyr
503.40	FOL3	1.00	22			
513.90	FOL3	1.00	23			
525.30	FOL3	1.00	53			
534.80	FOL3	1.00	22			
548.80	FOL3	1.00	12			
550.00	BEDD	6.00	50			
551.60	BEDD	1.00	46			
556.00	FOL3	1.00	42			
565.00	SHER	1.00	25			weak thin shear, 4mm carb vein in shear plane
577.40	FOL3	1.00	26			
584.40	FOL3	1.00	26			
591.10	FOL3	1.00	24			
604.50	BEDD	1.00	35			

depth	structure	width	coreAngle	dipAzimuth	stDip	comments
607.60	BEDD	1.00	54			
616.70	JOIN	1.00	36			
621.35	VEIN	8.00	26			qtz vein, slickenslides, trace chl
624.90	SHER	1.00	36			small chl alt shear plane
632.00	VEIN	200.00	5			low angle weak ser-carb altered zone along sub parralel fractures/foliation sligh
640.90	VEIN	10.00	38			qtz-chl vein, 30cm sericitic alt. halo in surrounding rock
652.00	SHER	5.00	8			low angle shear, mod fol surrounding, intense sericitisation
656.00	JOIN	1.00	40			
659.20	VEIN	20.00	17			qtz-carb(Fe) brown stained carb
667.90	CONT	1.00	26			sharp distibnt contact
673.10	VEIN	18.00	33			coarse crystalline carb
674.50	JOIN	1.00	42			
686.00	FOL3	1.00	18			
698.90	JOIN	1.00	44			
705.50	JOIN	1.00	52			
717.00	JOIN	1.00	44			
734.40	JOIN	1.00	45			
740.00	BEDD	1.00	22			bedding??
741.80	CONT	1.00	39			sharp rhyt-sediment contact
755.30	JOIN	1.00	33			