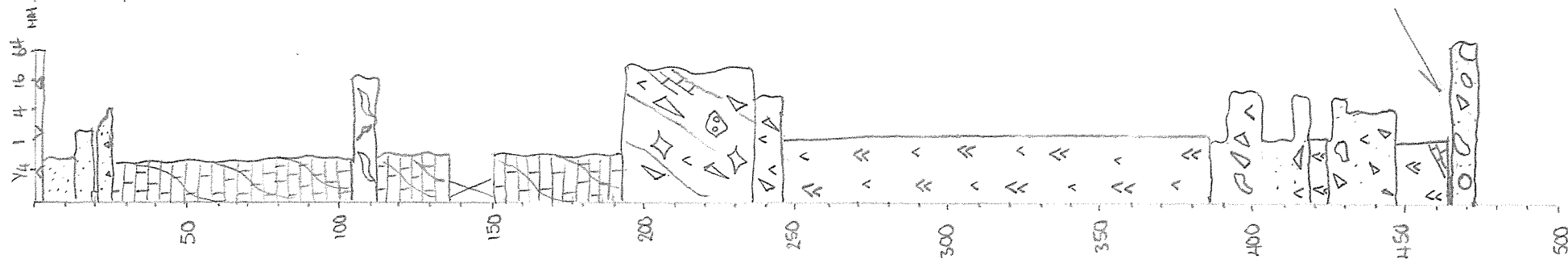


DDH TC10 Tyndall Range



Great Lyell Fault.

Mineralization

minor chalcopyrite observed in carbonate veining & chalcopyrite dominant veins.

Assays

- low level gold (0.03-0.15ppm) associated with cpy mineralization & at Great Lyell Fault.
- Best result of 0.15 ppm Au in Gr. Fault cataclasite.

Summary Log

0-2m surficial, glacial & grey shale rubble
2-18.5 dark grey pyritic siltstone.
13.5-26.5 xtal sandstone & xtal rich mass flow
26.5-103.3 sandy marl.

103.3-111.7 distinctive carbonate with muddy lenses

111.7-137.8 Marl.

137.8-150.2 Cavify

150.2-192 Mostly sandstone

192-247 andesitic/basaltic hyaloclastite breccia.

247-386.1 dark green up to 3m feldspar phyritic, strongly magnetic andesite/basalt.

386.1-447.1 pebbly to sandy andesitic hyaloclastite

447.1-462.25 andesite/basalt. strongly magnetic.

462.25-462.7 Great Lyell Fault.

462.7-471.1 siliciclastic conglomerate - Newton Creek Formation.

Hole No.		TC10	Collar Location		Graphical Drill Hole Log		Logged by M. Blake		Massive											
Project :		EL 28/2001	East :		Azimuth : degrees (MGA94)		Drilled by : Wholecore		Pervasive											
Prospect :		Tyndall Range	North :		Declination : degrees		Drill type : Coretech CSD 1800		Disseminated											
Grid :		MGA94	Proj.		Total Depth :		Drill Date		Narrow vein											
			MGA94 co-ords		Collar surveyed by:															
			0.002 1/4 1 4 16 64 mm																	
From	To	Colour/Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grain size	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Dissem.	Pervasive
0	1							0-1 m. surficial rubble, organics (drill pad)												
1	2							1-2 m. grey shale + top est rubble.												
2	3							2-13.5 m.												
3	4							dk. grey, finely laminated block pyritic siltstone												
4	5																			
5	6																			
6	7																			
7	8							moderate < 1 cm carb veining, nodular pyrite												
8	9																			
9	10																			
10	11																			
11	12																			
12	13							cleavage at high angle to bedding sharp conformable contact. 55°/NCA												
13	14																			
14	15							13.5-20.85												
15	16							medium grey fsp > qtz-leucocrine xtal sandstone with minor py. ~10% leucocrine. grain size ↑ towards sharp slickened contact with black shale.												
16	17																			
17	18																			
18	19																			
19	20																			
20	21							20.85-26.5 m.												
21	22							graded fsp-qtz-leucocrine-lithic mass flow. green-grey, xtal rich. clasts of black shale & rhyolite w/ carb veining.												
22	23																			
23	24																			
24	25																			
25	26							sharp, irregular contact. 35°/NCA.												
26	27																			
27	28																			
28	29																			
29	30																			

0-1 m. surficial rubble, organics (drill pad)

1-2 m. grey shale + top set rubble.

2-13.5 m.

dk. grey, finely laminated ~~black~~ siltstone

moderate < cm carb veining, nodular pyrite

cleavage at high angle to bedding

sharp conformable contact. 55°/NCA

13.5-20.85

medium grey fsp > qtz-leucocrine xtal sandstone with minor

py. ~10% leucocrine. granofels

towards sharp slickened contact with black shale.

20.85-26.5 m.

graded fsp-qtz-leucocrine-lithic mass flow. green-grey, xtal rich.

clasts of black shale & mylonite

wk carb veining.

sharp, irregular contact. 35°/NCA.

2%

py.

1%

py.

1%. py

Hole No. TC10		Collar Location		Azimuth : degrees (MGA94)		Graphical Drill Hole Log		Logged by M. Blake		Massive	
Project : EL 28/2001		East :		Declination :		Drilled by M. Blake		Wholecore		Pervasive	
Grid : MGA94		North :		Total Depth :		Drill type		Cortech CSD1800		Disseminated	
Proj :		MGA94 co-ords		Collar surveyed by :		Drill Date				Narrow vein	
		0.002 1/4 1 4 16 64 mm									
From	To	Colour/Weathering	Structure Type 1	Structure Type 2	Angle OA	Graphic structure	Log grain size	Description	Silica	Alteration	Mineralization
30	31							26.5- 68.2m Marl			
31	32							strong foliated, cream-green-brown mottled carbonate-haematite-chlorite schist.			
32	33							sandy features with relict patches of feldspathic sandstone as above.			
33	34							red white carb veining			
34	35							weak haematite veining to 2cm with cpy in vein @ 37.9m.			
35	36							trace cpy in carb veins.			
36	37							transitional textural change at downhole interface			
37	38										
38	39										
39	40										
40	41										
41	42										
42	43										
43	44										
44	45										
45	46										
46	47										
47	48										
48	49										
49	50										
50	51										
51	52										
52	53										
53	54										
54	55										
55	56										
56	57										
57	58										
58	59										
59	60										

SAMPLES 01 37-37.6m
02 37.6- 38.3
03 38.3-39

Hole No. TC10		Collar Location		Azimuth : degrees (MGA94)		Graphical Drill Hole Log		Logged by M. Blake		Massive									
Project : EL 28/2001		East : North : RL :		Declination : degrees				Drilled by Wholecore		Pervasive									
Grid : MGA94		Proj. MGA94 co-ords		Total Depth : Collar surveyed by:				Drill type Cortech CSD1800		Disseminated									
		0.002 1/4 1 4 16 64 mm						Drill Date		Narrow vein									
From	To	Colour/Weathering	Structure Type 1	Structure Type 2	Angle CA	Graphic structure	Log grain size	Description	Silica	Sericite	Albite	Carbonate	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Dissem.	Pervasive
60	61																		
61	62																		
62	63																		
63	64																		
64	65																		
65	66																		
66	67																		
67	68																		
68	69																		
69	70																		
70	71																		
71	72																		
72	73																		
73	74																		
74	75																		
75	76																		
76	77																		
77	78																		
78	79																		
79	80																		
80	81																		
81	82																		
82	83																		
83	84																		
84	85																		
85	86																		
86	87																		
87	88																		
88	89																		
89	90																		

Minor
Py-Qz

trace
Pg. in
Py in
sst.

sp. in carb. v. @
62.2.5m
foliation
intensity
decreasing

68.2 - 103.3
cream-white fine sugary
textured stylolitic carbonate
with relatively weak foliation
texture.
patches of fsp-qtz + py sandstone
in wisps to vein-like occurrences.

qsp-pnt sst.

SAMPLES 04 61.4m - 62
05 62 - 62.5
06 62.5 - 63.5m.

Hole No.		TC10		Collar Location		Graphical Drill Hole Log		Logged by M. Blake		Massive										
Project : EL 28/2001		East :		Azimuth :		degrees (MGA94)		Drilled by		Pervasive										
Prospect : Tyndall Range		North :		Declination :		degrees		Wholecore		Disseminated										
Grid : MGA94		RL :		Total Depth :		Collar surveyed by:		Drill type		Narrow vein										
Proj.				MGA94 co-ords		0.002 1/4 1 4 16 64 mm		Drill Date												
From	To	Colour/Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grain size	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Dissem.	Pervasive
90	91																			
91	92																			
92	93																			
93	94																			
94	95	x		15° weak fol.				patches of coarse felds - qtz mt xtal sst.												
95	96																			
96	97																			
97	98																			
98	99							carb to nearly carb.												
99	100																			
100	101																			
101	102																			
102	103																			
103	104	x		70° foliation mod.				103.3- 111.7 Mtl.												
104	105							medium grey, black mottled, distinctive carbonate rich fine sandstone with intensised wispy dark pyritic muds, at frame, sandy laminations are disrupted to give logenge breccia appearance with "shreddy" textured carbonaceous matrix. minor white carb veining broken contact												
105	106																			
106	107																			
107	108																			
108	109																			
109	110																			
110	111	x		10° strong foliation bedding?																
111	112																			
112	113																			
113	114							111.7 - 137.9 m.												
114	115							intensely carbonate - haematite - chlorite altered sandstones - Mtl												
115	116							strong carb veining, stylolitic and breccia textures												
116	117																			
117	118																			
118	119																			
119	120							sigmoidal carb veining												

21

void pyritic concretions in shaly bands,

Minot cpy in carb vein @ 114-7m

2%
avoid pyritic
concretions in
snally bands,

most cap in
carb vein
@ 114.7m

patches of coarse felds - qz + mt
xtal sst.

carb to mostly carb.

103.3- 111.7 Mm.
medium grey's black mottled,
distinctive carbonate rich fine
sandstone with interbedded wispy
dark pyritic muds, at frame,
sandy laminations are disrupted
to give lozenge breccia appearance
with "shreddy" textured carbonaceous
matrix. minor white carb veining
broken contact

111.7 - 137.9 m.
intensely carbonate - barrenite -
chloritic altered sandstones - Mm
strong carb veining, stylolitic and
breccia features

sigmoidal carb veining

Sampled 114-116m 07 113-114
08 114-115
09 115-116

SAMPLES

# 10 - 129.2 - 130.2	
11 - 130.2 - 130.6	
12 - 130.6 - 131.6	
	=
	13 - 136 - 137
	14 - 137 - 137.8

Hole No. TC10				Collar Location		Graphical Drill Hole Log		Logged by M. Blake		Mineralization	
Project : EL 28/2001		East : degrees (MGA94)		Collar surveyed by:		Azimuth : degrees		Drilled by		Massive	
Prospect : Tyndall Range		North : degrees		MGA94 co-ords		Declination : degrees		Drill type		Pervasive	
Grid : MGA94		RL :		0.002 1/4 1 4 10 04 mm		Total Depth :		Drill Date		Disseminated	
Proj.		Angle CA		Graphic structure		Log grain size		Alteration		Narrow vein	
From	To	Structure type 1	Structure type 2	Weathering	Colour	Description	Alteration	Mineralization	Vein Qtz %	Mineralization Assemblage	% Veining
150.15	155 x	foliation				150.2-160 Mostly sandstone, medium grey, mostly sandstone with wispy ragged ? interbeds of greenish ? magnetite bearing siltstone. Now to weakly magnetite carb.		trace py, cpv		fine grained	
160	160	transition				transition to carb-haem dominant 160-192, green-white, red-brown foliated sandy carbonate with stibitic to foliation // wispy magnetite-haematite. trace cpv associated with white carbonate in proximity to mag/haem.				? developing pyrrhotite to magnetite.	
165 x	170	foliation						trace cpv			
175	176										
177	178										
179	180					Occasional fsp porphyritic clasts haematite magnetism					

Hole No. TC10		Collar Location		Azimuth : degrees (MGA94)		Declination : degrees		Total Depth : m		Collar surveyed by:		Logged by M. Blake		Drilled by Wholecore		Drill type Cortech CSD1800		Drill Date		Mineralization	
From	To	Colour/Weathering	Structure Type 1	Structure Type 2	Angle CA	Graphic structure	Log grain size	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Vein	Dissem.	Pervasive	
180	181																				
185	x		25°/foliation					Carbonate schist as above with fsp porphyritic clasts increasing downhole.													
190								increasingly magnetic downhole.													
191																					
192	contact 30°/VCA sharp.							sharp contact.													
192								192 - 236.4.													
195								red-brown & cream mottled.													
195								andesitic hyaloclastite breccia													
195								clasts porphyritic (carb altered)													
198	x		25°/foliation					strongly magnetic, with carbonate matrix.													
200																					
200								strong hornblende alteration mod-strong foliation													
205								minor mm chalcopyrite veining													
205																					
210	x		30°/foliation																		

trace/minor cpy.

Hole No. TC10		Collar Location		East : North : RL :		Azimuth : Declination : Total Depth :		Graphical Drill Hole Log		Logged by M. Blake Drilled by Drill type Drill Date		Massive Pervasive Disseminated Narrow vein								
Project : EL 28/2001 Prospect : Tyndall Range Grid : MGA94		MGA94 co-ords 0.002 1/4 1 4 16 64 mm		Proj.		Collar surveyed by:														
From	To	Colour/ Weathering	Structure Type 1	Structure Type 2	Angle CA	Graphic structure	Log grain size	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Dissem.	Pervasive
210	214																			
215																				
219																				
220								219.8 - 3m cpx vein. along foliation								x cpx				✓
221																				
224								224.5-227 shear zone - minor faulting												
225																				
227																				
230																				
235								236.4 - 247 dark green fine grained to medium crystalline, strongly magnetic proximal andesite / basalt. hyaloclastite.												
236																				
237								tightly packed - white carbonate absent.												
240																				

SAMPLES	FROM	TO
# 15	218.5	219.5
16	219.5	220.5
17	220.5	221.5

[illegible]

270

Hole No. TC10		Collar Location		Graphical Drill Hole Log		Logged by		DAE		Massive		Mineralization	
Project : EL 28/2001		East : degrees		Azimuth : degrees		Drilled by		Wholecore		Pervasive		Pervasive	
Prospect : Tyndall Range		North : degrees		Declination : degrees		Drill type		Cortech CS		Disseminated		Dissem.	
Grid : MGA94		Proj.		Total Depth :		Drill Date		Narrow vein		Narrow vein		Veining	
MGA94 co-ords		Collar surveyed by:		Log grain size		Alteration		Vein		Mineralisation		Vein	
0.002 1/4 1 4 16 64 mm		Graphic structure		Angle CA		Silica		Qtz %		Assemblage		Pervasive	
From	To	Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grain size	Description	Silica	Albite	Carbonate	Chlorite	Hematite
26271								Andesitic / basalt.		/	/	/	/
275								strongly fsp porphyritic		/	/	/	/
280								strongly magnetic		/	/	/	/
285								patchy haematite alteration		/	/	/	/
290								100m chlorite - carb vn.		/	/	/	/
295								patchy alt carbonate alteration of phenocrysts changes phenocryst visibility		/	/	/	/
300										/	/	/	/

Samples	From	To
# 18	274	275
19	275	276
20	276	277

Hole No. TC10		Collar Location		Graphical Drill Hole Log		Logged by		Massive			
Project : EL 28/2001		East : degrees (MGA94)		Azimuth : degrees		DAE		Massive			
Prospect : Tyndall Range		North : degrees		Declination : degrees		Drilled by		Pervasive			
Grid : MGA94		Proj. MGA94 co-ords		Total Depth : mm		Drill type		Disseminated			
		0.002 1/4 1 4 16 64 mm		Collar surveyed by:		Drill Date		Narrow vein			
From	To	Colour/Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grain size	Description	Alteration	Mineralization	
									Silica	Hematite	
									Chlorite	Vein Qtz %	
									Carbonate	Mineralisation Assemblage	
									Albite	%	
									Sericite	Veining	
										Dissem.	
										Pervasive	
300	301										
305								increased carb veining			
310											
315											
315	316										
316	317										
317	318 x										
320											
321											
322											
323											
324											
325											
330 x											

NO
SIGNIFICANT
MIN.

317-318.5 intense carb alteration.

↳ brecciation of andesitic rk.

intense carb 323.6-324.6

40-60°
document
veining

Samples		To	From		To	From
#	21	356	355	#	26	360
	22	357				
	23	358				
	24	359				
	25	60			31	65

Hole No.		TC10		Collar Location		Graphical Drill Hole Log		Logged by		DAE		Massive								
Project :		EL 28/2001		East :		Azimuth :		Drilled by		Wholecore		Pervasive								
Prospect :		Tyndall Range		North :		Declination :		Drill type		Cortech CS		Disseminated								
Grid :		MGAS94		RL :		Total Depth :		Drill Date				Narrow vein								
Proj.		MGAS94 co-ords		Collar surveyed by:																
		0.002 1/4 1 4 16 64 mm																		
From	To	Colour/Weathering	Structure type 1	Structure type 2	Angle CA	Graphic structure	Log grain size	Description	Silica	Sericite	Albite	Carbonate	Chlorite	Hematite	Vein Qtz %	Mineralisation Assemblage	%	Veining	Dissem.	Pervasive
360	361	x	35-50° dominant veining & cleavage.																	
365																				
370																				
375																				
378																				
380																				
382																				
384																				
385																				
386			20° weak fabric.																	
390																				

strongly porphyritic, magnetic
andesite with carb veining
as above.

bx carb rich. haeri**

386.1 haenitized contact
386.1 - green-grey to red-brown
dominantly pebbly to sandy
andesitic? hyaloclastic

Hole No.		TC10		Collar Location		Graphical Drill Hole Log		Logged by		Massive		Mineralization	
Project : EL 28/2001		East :		Azimuth :		degrees (MGA94)		DAE		Pervasive		Mineralisation	
Prospect : Tyndall Range		North :		Declination :		degrees		Wholecore		Disseminated		Veining	
Grid : MGA94		RL :		Total Depth :		Collar surveyed by:		Drill type		Narrow vein		%	
Proj.		MGA94 co-ords		Log grain size		Graphic structure		Alteration		Vein Qtz %		Mineralisation Assemblage	
From	To	Colour/Weathering	Structure Type 1	Structure Type 2	Angle CA	Description		Silica	Albite	Carbonate	Chlorite	Hematite	
390	391												
395	395 x												
398													
400													
404													
405													
408													
410													
413													
414													
415													
416													
417													
418													
419													
420													

strongly foliated with brecciated contact zones. Strongly silicified non magnetic, with minor disseminated euhedral Mt pyrite.

91-98m Rd-brown coloration

strong haematized clasts 394-395m.

weak carbonate veining

contact drop 410 NCA. cleavage surface.

419.15 - 423.5

brown-green, strongly feldspar porphyritic andesite dyke

Hole No. **TC10**
 Project : EL 28/2001
 Prospect : Tyndall Range
 Grid : MGA94
 East :
 North :
 RL :
 Proj. :
 Collar Location
 MGA94 co-ords
 0.002 1/4 1 4 16 64 mm
 Graphical Drill Hole Log
 Azimuth : degrees (MGA94)
 Declination : degrees
 Total Depth :
 Collar surveyed by:

From	To	Colour	Weathering	Structure Type 1	Structure Type 2	Angle CA	Graphic structure	Log grain size	Description	Alteration	Mineralization	Massive	Disseminated	Narrow vein
420	421								sp. contact with streaked, foliated volcaniclastics	Silica				
423														
425									423.5- 447.1 red brown to green, coarse sandy to pebbly textured feldspathic dacite to andesite breccia/sandstone.	Silica				
430									non magnetic with relatively weak carbonate alteration & veining	Silica				
435									moderately foliated.	Silica				
440														
443														
445														
447									fine grained contact - transitional to 449.8m	Silica				
450														

No
 Sph. cont
 Pyrite

Weak.

PAGE 16 OF 16

Samples	#	From	To
	32	452	453
			54
			55
			56
			57
			58
38		458	459
	39	459	
	40		
	41		
	42	- 462.25 -	
	43		
	44		
			463.9
			465
	45	465	466
			467

From To
46 466 467
END SAMPLES,