

[illegible]

Geology Logging			
depth from (m)	depth to (m)	Description	Mineralisation
0	11.1	Scree composed of grn-purple volcanics & Q, round to sub round.	
11.1	12	Sand composed of equigranular Q & felsic volcanics, gry round to sub angular. Aquifer zone.	
12	39.8	Porphyritic volcanic fresh to 12.90m, becoming highly oxidised grn-gry to 13.90m then yell-brn, mildly friable with remnant porphyritic texture. Mild schistosity to 39.80m	
39.8	45.3	Grading to cg porphyritic andesite, grn-gry. Becoming fresh andesite at 42.0m	
45.3	74.3	Mg porphyritic andesite, grn-gry, some pink - or felsic autoliths, chlor matrix. <b>LIPPED OFF 40.70m</b> . Massive and continuous core, some erratic Qcarb vlts, core broken & grey pink 60.80 - 62.10m. Qv 70.90m (150m) & 72.50m (750mm). Flow banding 47°SE/170° in orientated core.	
74.3	113.7	Fg volcanic (?), aphanitic in parts, (possibly a metasediment?) brn-or grading to pale orange. Chloritised 79.40 - 84.60m. Qv 77.10 (300mm), 78.20 (400mm), 81.20 (700mm), 82.25 (300mm). Clay rock flour at 91.05m (5mm). Glassy eutaxitic texture 95.20 - 103.80m with varying degrees of silicification.	
113.7	140.85	Fg volcanic, gry-or, extaxitic flow banding. Clay pug fault zone 113.70 - 114.15m	F dark vitric vlts 133.20 - 135.80m containing blebs of sph up to 10mm and gal to 8mm
140.85	198.2	Mg porphyritic volcanic gry-grn, prominent chlor fiamme and "pits". Felsic autoliths 145.0 - 148.25m. Broken fractured core at 152.0 - 153.0 sub parallel to core axis. Orange groundmass 162.50 - 166.50m & 177.50 - 179.20m. Perlitic texture more prominent at 166.60 - 175.90m, various degrees of silicification, generally increasing downhole. Erratic Qcarb vlts particularly 186.0 - 189.50m. Broken core 191.20 - 191.70m.	5-10% sulphides over interval between 134.6 - 135.0m. Gal, chalcopy & py in vlts. 137.95m vlts of galena 5mm.
198.2	278.3	Volcanic tuff / Fg volcanic. Gry, eutaxitic texture with parallel Qcarb vlts. <b>NQ WEDGE BEGIN 202.30m</b> . Massive continuous core, some cg porphyritic interbeds becoming a fine bedded vitric tuff 240.50m. Broken core 251.60 - 252.0m. Q & Qcarb veins 257.40m (200mm). Qv 259.05m (150mm), 263.20 (200mm) & 276.15m (250mm)	F disseminated py throughout less 1%
278.3	279.7	<b>Interbedded zone of CVC &amp; FGS</b> . Disconcernable upper contact 30° to unorientated core. Broken core, friable with a clay pug zone at 279.40m (50mm).	

279.7	347.2	Crystalline Mackintosh tuff, gry, contorted to 289.20m, then becoming finely bedded with cleavage parallel to bedding. Fine shaley & graphitic interbeds, massive and continuous full run core. <b>FIRST SIGN OF HYDROUS CREAM CARBONATE 339.0m</b>	
347.2	353.8	Predominantly black slates with interbeds of cg volcanic breccia (?) 347.22 - 347.55., 349.00 - 349.10m <b>See Petrology 134029:</b> <i>Brecciated fine grained graphitic sericitic phyllite, with early veining and replacement by fine to medium grained quartz, plus minor carbonate and pyrite, followed by later breccia infilling and veining by medium to coarse grained carbonate (dolomite) and quartz. It is interpreted that the protolith for the phyllite was a carbonaceous pelite that was metamorphosed to low grade and strongly deformed. A strong sericite-defined foliation has been locally folded and crenulated, before or during the early veining and replacement event. The brecciation may have been tectonically induced and the breccia mostly incorporates phyllite fragments, along with a few vein quartz fragments. The altered phyllite fragments and early veining and replacement contain disseminated pyrite, with tiny traces of galena, sphalerite and chalcopyrite being hosted in pyrite.</i> Mg tuff interbeds 349.55 - 349.80m. Carbonate vlts increasing 353.05 - 353.80m.	VF disemm py throughout
353.8	361.8	Mg sericitic tuff, gry, highly contorted to 356.0m. Minor carbonate brecciation and stringers - No sulphides. Highly broken core 357.25 - 357.65m. Q & carb stringers becoming more intense & brecciated 360.00 - 361.20m	Massive bleb of chalcopy contained within py at 360.1m (50mm). Dissem py & py "wisps" increasing downhole.
361.8	365.7	Fault breccia rich in Q clasts and fine tuff. Lode Zone.	VF dissem & blebs of sph in white carbonate. Massive brecciated sph in carbonate 363.95 - 364.10m & 364.20 - 364.32m. Galena vein 364.43 (40mm) with chalcopy. Blebs of varying size sph 364.47 - 365.33m sph (20%), gal (10%), chalcopy (10%) & py (10%) within cream carbonate.
365.70	388.00	Black finely bedded slates. Black gritty clay pug 356.70 - 366.20m & 367.10 - 368.70m. Carbonate vlts closing up and show no sulphides. Some tuff interbeds 372.80 & 380.60m. Cream carbonate at end of core run with py & chalcopy.	Py & chalcopy 372.70m (6mm) in carbonate. VF "wispy" py vlts & dissem py throughout.
388.00			

Geology Summary		
depth from (m)	depth to (m)	Geological Code
0.00	278.30	CVC
278.30	279.70	IBZ

Petrology	
Report ID:	134029
Depth:	349m
Sample ID:	134029

297.70	339.00	MCT
339.00	339.01	FCC
347.20	353.80	FS
353.80	361.80	MCT
361.80	363.95	FZ
363.95	365.33	Lode zone
365.33	375.70	FZ
375.70	388.00	FS

<b>Lithology:</b>	FGS
<b>Type:</b>	PTS
<b>Petrologist:</b>	Paul Ashley UNE
<b>Date Reported:</b>	11-May-2006
<b>Hand Specimen:</b>	YES

Core Recovery			
depth from (m)	depth to (m)	Recovery	Recovery %
7.2	10.9	0.2	5
10.9	13.9	2.3	77
13.9	16.9	3.9	130
16.9	19.9	2.9	97
19.9	22.9	3.0	100
22.9	25.9	3.0	100
25.9	28.9	3.0	100
28.9	31.9	3.0	100
31.9	34.8	3.0	103
34.8	37.9	3.0	97
37.9	39.8	2.7	142
39.8	41	1.6	133
40.7	43.9	3.4	106
41	43.9	2.8	97
43.9	46.9	3.0	100
46.9	49.9	3.0	100
49.9	52.9	3.0	100
52.9	55.9	3.0	100
55.9	58.9	3.0	100

58.9	61.9	3.4	113
61.9	64.9	2.9	97
64.9	67.9	3.0	100
67.9	70.9	2.9	97
70.9	73.9	3.0	100
73.9	76.9	3.0	100
76.9	79.9	3.0	100
79.9	82.9	3.0	100
82.9	85.9	3.1	103
85.9	88.9	2.9	97
88.9	91.9	2.9	97
91.9	94.9	2.9	97
94.9	97.9	3.0	100
97.9	100.9	3.0	99
100.9	103.9	2.9	97
103.9	106.9	3.0	100
106.9	109.9	3.0	100
109.9	112.9	2.8	93
112.9	115.9	3.0	100
115.9	118.9	2.8	93
118.9	121.9	3.1	103
121.9	124.9	3.0	100
124.9	127.9	3.0	100
127.9	130.9	3.1	103
130.9	133.9	3.0	100
133.9	136.9	3.0	100
136.9	139.9	2.9	97
139.9	142.9	3.0	98
142.9	145.9	3.0	100
145.9	148.9	3.0	100
148.9	151.9	3.1	103
151.9	154.9	3.1	103
154.9	157.9	3.0	100
157.9	160.9	2.9	97
160.9	163.9	2.9	97
163.9	166.9	3.1	103
166.9	169.9	3.0	100
169.9	172.9	3.0	100
172.9	175.9	2.9	97
175.9	178.9	3.0	100
178.9	181.9	3.0	98
181.9	184.9	3.0	100
184.9	187.9	3.0	100
187.9	190.9	3.5	117
190.9	193.9	3.0	100
193.9	196.9	2.9	97
196.9	199.9	3.0	100
199.9	202.3	2.3	96
202.3	205.2		
205.2	208	3.0	107
208	211.1	3.0	97
211.1	214.1	3.0	100
214.1	217.2	3.0	97
217.2	220.3	3.0	97
220.3	223.4	3.1	100
223.4	226.5	3.0	97
226.5	229.6	3.0	97

229.6	232.7	3.0	97
232.7	235.8	3.0	97
235.8	238.8	2.9	97
238.8	241.8	3.0	100
241.8	244.8	2.9	97
244.8	247.8	3.0	100
247.8	250.8	2.9	97
250.8	253.8	3.0	100
253.8	256.8	3.1	103
256.8	259.8	3.0	100
259.8	262.8	2.9	97
262.8	265.8	3.1	103
265.8	268.8	2.9	97
268.8	271.8	3.1	103
271.8	274.8	3.0	100
274.8	277.8	3.0	100
277.8	280.8	2.9	97
280.8	283.8	3.0	102
283.8	286.8	3.0	102
286.8	289.8	3.2	107
289.8	292.8	3.0	100
292.8	295.8	2.9	97
295.8	298.8	3.0	100
298.8	301.8	3.0	100
301.8	304.8	3.1	103
304.8	307.8	3.0	100
307.8	310.8	3.0	100
310.8	313.8	3.0	98
313.8	316.8	3.0	100
316.8	319.8	3.0	100
319.8	322.8	3.0	100
322.8	325.8	3.1	103
325.8	328.8	3.0	100
328.8	331.8	3.1	103
331.8	334.8	2.9	97
334.8	337.8	3.0	100
337.8	340.8	3.0	100
340.8	343.8	3.0	100
343.8	346.8	3.0	100
346.8	349.8	3.0	100
349.8	352.8	2.9	97
352.8	355.8	2.7	90
355.8	358.8	3.1	103
358.8	361.8	3.1	103
361.8	364.8	3.0	100
364.8	366.8	1.3	65
366.8	368.8	2.3	115
368.8	370.8	2.3	115
370.8	373.8	3.3	110
373.8	376.8	3.0	100
376.8	379.8	3.0	100
379.8	382.8	3.0	100
382.8	385.8	3.0	100
385.8	388	2.3	102

Survey						
depth (m)	Dip	UTM Azimuth	Mag Azimuth	Instrument	Operator	DateRead
0	-75.00	94.40	107	Single Shot	J. Kaye	15-Feb-06
34	-74.50	95.40	108	Single Shot	J. Kaye	16-Feb-06
49	-74.50	97.40	110	Single Shot	J. Kaye	21-Feb-06
76	-74.00	93.40	106	Single Shot	J. Kaye	22-Feb-06
103	-72.00	92.40	105	Single Shot	J. Kaye	23-Feb-06
130	-71.00	88.40	101	Single Shot	J. Kaye	27-Feb-06
154	-70.50	87.40	100	Single Shot	J. Kaye	28-Feb-06
178	-69.50	87.40	100	Single Shot	J. Kaye	01-Mar-06
199	-68.00	86.40	99	Single Shot	J. Kaye	02-Mar-06
214	-64.00	85.40	98	Single Shot	J. Kaye	06-Mar-06
226	-62.00	84.40	97	Single Shot	J. Kaye	07-Mar-06
241	-59.75	81.40	94	Single Shot	J. Kaye	07-Mar-06
256	-52.50	78.40	91	Single Shot	J. Kaye	08-Mar-06
268	-48.00	77.40	90	Single Shot	J. Kaye	08-Mar-06
280	-43.00	77.40	90	Single Shot	J. Kaye	09-Mar-06
292	-37.75	79.40	92	Single Shot	J. Kaye	09-Mar-06
301	-32.50	78.40	91	Single Shot	J. Kaye	13-Mar-06
313	-31.00	82.40	95	Single Shot	J. Kaye	13-Mar-06
331	-30.00	82.40	95	Single Shot	J. Kaye	13-Mar-06
355	-30.00	82.20	94.8	Single Shot	J. Kaye	14-Mar-06
382	-30.00	82.40	95	Single Shot	J. Kaye	15-Mar-06

Significant Intersections			
depth from (m)	depth to (m)	m	Ag g/t
133.20	135.00	1.80	39.1
357.00	367.60	10.60	10.9

depth from (m)	depth to (m)	m	Pb %	Cu ppm	Fe %
133.2	135	1.8	1.6	410.0	7.6
364	365	1	2.1	2250.0	10.8

depth from (m)	depth to (m)	m	Zn %	Cu ppm	Fe %
363	365	2	6.2	2250	10.8