GEOLOGICAL LOG

Project: Cygnet **Exploration Licence:** EL29/97

Prospect: Mt Mary Mine **Hole Number:** CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
1					0-59: Weathering. 0-7.5: Precollar, no core. 7.5-38: Much relatively fresh rock though core generally broken with common limonitic coatings on fractures; very difficult drilling in soft weathered material at around 16 and 26; largely decomposed to clay at 26.8-29.6. 38-59: Core broken with local decomposition to clay, but limonitic coatings on fractures generally absent.
2					
3					
4					
5					
6					
7	7.5	11.8	100	12.61	7.5-8.0: Black hornblende (abundant, to 5mm) porphyry with medium grey, fine grained groundmass. Lamprophyre.
8				8.96	8.0-16.5: Small feldspar (abundant, to 10mm), subordinate black hornblende (to 3mm) porphyry with medium grey ground mass. Common epidote alteration of feldspars.
9				4.87	
10				4.35	
11	11.8	12.4	66	5.67	
12	12.4	14.1	50	4.71	
13				2.88	
14	14.1	15.4	58	NO SAMPLE	
15	15.4	18.4	75	5.37	

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16				NO SAMPLE	16.05-17.0: Drillers cement and very broken core of porphyry.
17				.71	17.0-20.5: Black hornblende porphyry. Lamprophyre.
18	18.4	21.40	60	.94	
19				.43	
20				.99	20.5-26.0: Small feldspar porphyry as above. Also olive porphyry with sparse feldspar phenocrysts. Core very broken.
21	21.40	24.40	53	6.50	
22				.46	
23				3.86	
24	24.40	27.40	50	NO SAMPLE	
25				NO SAMPLE	
26				NO SAMPLE	26.0-29.6: Largely altered to clay, some relict small feldspar porphyry. Limonitic fractures at 29.6m. Soft, greenish-cream mineral on some fractures.
27	27.40	29.00	69	NO SAMPLE	
28				.33	
29	29.00	30.40	64	.16	29.6-34.8: Tillite. Dark grey, pebbly-sandy-silty mudstone with clasts of milky quartz, quartzose sandstone, siltstone and phyllite. A small proportion of clasts are recrystallized with thin halos of alteration (pale) in the surrounding matrix.
30	30.40	31.40	75	.17	
31	31.40	32.40	90	.17	
32	32.40	33.40	90	.18	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
33	33.40	34.70	92	.21	
34	34.70	35.40	90	.23	34.8-35.2: Brecciated and ?sheared tillite.
35	35.40	36.40	90	.18	35.2-35.6: Cream clay.
36	36.40	37.90	100	.21	35.6-35.8: More breccia.
37	37.90	39.4	90	.21	35.8-38.0: Tillite. Fairly coherent.
38				.24	38.0-49.5: Tillite. Small proportion of recrystallized clasts. Core very broken 41.1-43.2, 43.8-45.4, 47-49.5. Scattered veinlets of white, translucent, crystalline mineral at 44-45. Note: Marked change in style of weathering at 38m. Limonite coating on fractures common above 38m, but uncommon below.
39	39.4	40.9	90	.23	
40	40.9	42.4	40	.26	
41				.27	
42	42.4	45.4	90	.16	
43				.16	
44				.22	
45	45.4	48.4	90	.24	
46				.23	
47				.22	
48	48.4	51.4	60	.19	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
49				.28	49.5-56.5: Tillite. Core very broken. Breccia intervals and slickensided shears.
50				.16	
51	51.4	54.4	90	.22	
52				.23	
53				.26	
54	54.4	57.2	95	NO SAMPLE	
55				.21	
56				.21	56.5-59.0: Tillite. Strongly sheared with cataclastic fabric 20deg to core axis.
57	57.2	60.4	95	.31	
58				3.72	
59				.27	59.0-62.8: Tillite. More coherent with localized shearing, often at 20deg to core axis.
60	60.4	63.4	95+	.25	
61				.29	
62				.33	62.8-70.5: Tillite. Coherent with discrete shears 20deg-40deg to core axis. Clasts angular to rounded, up to 5cm across. Mainly quartzose sandstone, also dark grey siltstone and a few of coarse grained granitoid. A small proportion of clasts comprise recrystallized actinolite-pyrrhotite (po) assemblages. Minor, pale grey silica alteration adjacent some fractures at 67-68, which contain thin quartz-calcite veinlets. Also, several 1-8mm po veinlets.
63	63.4	66.4	100	.30	
64				.30	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
65				.60	
66	66.4	69.4	100	.36	
67				.37	
68				.49	
69	69.4	72.4	100	.37	
70				.17	70.5-71.2: Large feldspar, black hornblende porphyry with khaki groundmass showing patchy, pale alteration. 5-10% sulphide.
71				.47	71.2-73.1: Tillite. Thin green silicate-sulphide seam at 71.7m.
72	72.4	75.4	100	.35	
73				.35	73.1-74.1: Large feldspar, black hornblende porphyry with pale ground mass and 5-10% sulphide. Bleached tillite at contacts.
74				.62	74.1-77.4: Tillite. Scattered recrystallised clasts with pale halos. 5mm po veinlet at 74.5m. Carbonate and po in veinlet at 75.05m. Very thin zones of pale alteration adjacent some fractures at 75-76. Calcite-?quartz-po and po veinlets also at 75-76.
75	75.4	78.4	100	.80	
76				.33	
77				.30	77.4-78.6: Large feldspar (common) porphyry with very fine grained grey-fawn ground mass. Partial sulphide replacement of feldspars. Scattered, very thin sulphide veinlets.
78	78.4	81.4	105	.61	78.6-79.5: Tillite. Scattered recrystallised clasts with halos.
79				.49	79.5-82.3: Mainly large feldspar porphyry. Mafic porphyry interval.
80				4.4	
81	81.4	84.4	100	8.9	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
82				.72	82.3-84.7: Tillite. Scattered recrystallised clasts with halos. Unusually large (200mm) granitic clast at 82.5m.
83				.27	
84	84.4	87.4	100	.53	84.7-92.4: Large feldspar porphyry with flow alignment. A little epidote alteration. Cross cutting zoned porphyry 87.85-88.20m.
85				1.97	
86				1.82	
87	87.4	90.4	105	4.28	
88				3.82	
89				.99	
90	90.4	93.4	100	.62	
91				.73	
92				3.34	92.4-96.2: Tillite. Scattered recrystallised clasts with halos. Quartz-carbonate veinlets 94m, 94.75m.
93	93.4	95.0	100	.32	
94				.32	
95	95.0	96.7	100	.26	
96	96.7	99.8	100	.32	96.2-96.8: Small-feldspar porphyry.
97				.29	96.8-117.05: Tillite. Clasts of milky quartz, quartzose sandstone, fine grained felsic porphyry, dark grey siltstone, rare gneiss, a few of granitoid. Recrystallized clasts with actinolite-sulphide assemblages more common eg 110.5m. Scattered thin veinlets of chlorite-epidote-sulphide throughout.
98				.13	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
99	99.8	102.8	98	.28	
100				.25	
101				.23	
102	102.8	105.9	100	.32	
103				.29	
104				.23	
105	105.9	109.6	83	.29	
106				.26	
107				.21	
108				.28	
109	109.6	112.7	100	.27	
110				.30	
111				.35	
112	112.7	115.7	100	.42	
113				.40	
114				.41	
115	115.7	118.7	75	.53	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
116				.56	
117				21.7	117.05-121.95: Distinctive, large-feldspar (abundant, to 20mm), black hornblende porphyry with medium grey, fine grained groundmass. Strong flow alignment parallel contacts. Pyrite veinlets and epidote alteration near bottom contact.
118	118.7	120.4	88	7.58	
119				12.3	
120	120.4	121.8	105	11.2	
121	121.8	124.8	98	18.9	121.95-130.6: Sandy, silty mudstone with no pebbles. Dark grey. Consistent fissility at 50deg to core axis. Sulphide on fissility partings and in scattered, very thin, cross-cutting veinlets.
122				.47	
123				.66	
124	124.8	127.4	98	.87	
125				1.13	
126				.57	
127	127.4	130.8	85	.84	
128				.71	
129				.74	
130	130.8	133.8	73	.60	130.6-139.9: Similar mudstone with small pebbles and granules. Fissility persists to 135.8m. Scattered recrystallized pebbles. Common very thin sulphide veinlets, notably at 134.7-135.2.
131				.53	
132				.38	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
133	133.8	136.8	95	.52	
134				.58	
135				.49	
136	136.8	139.4	100	.44	
137				.64	
138				.85	
139	139.4	140.8	100	6.87	139.9-142.5. Large feldspar (abundant, to 15mm), subordinate black hornblende porphyry with medium greenish-grey, fine grained groundmass. Feldspars locally flow aligned. About 10% py replacing feldspars and in very thin veinlets. Local silicification of porphyry and pale alteration of tillite at top of contact.
140	140.8	142.8	100	.65	
141				.18	
142	142.8	145.8	100	7.78	142.5-144.5: Dark grey, sandy, silty mudstone with fissility at 50deg to core axis. Scattered, very thin sulphide veinlets with associated narrow bands of pale alteration.
143				.86	
144				.59	144.5-146.65: Tillite. Similar veinlets.
145	145.8	148.8	97	.88	
146				.43	146.65-150.60: Large feldspar (sparse, to 15mm) porphyry with fine grained, medium green-grey ground mass. Minor epidote alteration. Numerous fractures with associated pale alteration and containing very thin pyrite and py-minor quartz veinlets.
147				.33	
148	148.8	151.6	100	1.61	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
149				.96	
150				.55	150.6-154.6: Sandy, silty mudstone passing to tillite. Sparse very thin sulphide veinlets. Chlorite-epidote veinlet at 152.2.
151	151.6	154.0	100	.60	
152				.54	
153				.59	
154	154.0	157.0	93	13.64	154.6-157.8: Large-feldspar (common, to 30mm), subordinate black hornblende porphyry with fine grained, medium greenish-grey groundmass. Minor epidote. About 1% sulphide-disseminated.
155				70.00	
156				56.37	
157	157.0	159.5	100	64.71	157.8-158.5: Tillite.
158				2.14	158.5-159.66: Small-feldspar (to 10mm), black hornblende porphyry with common epidote alteration. Pale alteration of tillite at top contact.
159	159.5	162.5	96	2.49	159.66-173.4: Tillite. Many clasts recrystallised to actinolite-epidote-po assemblages, with pale halos. Scattered fractures with early, irregular silica alteration and later chlorite-actinolite-po veinlets.
160				.44	
161				.22	
162	162.5	163.8	88	.33	
163	163.8	166.8	102	.59	
164				.59	
165				.28	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
166	166.8	169.8	100	.26	
167				.18	
168				.61	
169	169.8	172.8	100	.39	
170				.16	
171				.17	
172	172.8	175.8	100	.14	
173				.24	173.4-173.9: Strongly altered porphyry, but with sharp top and bottom contacts. Very fine grained, cream, siliceous ground-mass around patches of actinolite-epidote-po. Virtually no sulphide veinlets.
174				.20	173.9-177.8: Tillite. Common recrystallised clasts with mafic assemblages. Irregular patches of pale alteration cut by actinolite-?chlorite-minor py veinlets. Altered porphyry 177.25 to 177.35.
175	175.8	177.8	100	.19	
176				1.04	
177	177.8	178.40	99	2.50	177.8-178.4: Tillite. Core very broken. Py on fractures.
178	178.40	179.8	99	.76	178.4-182.25: Tillite. Clasts are mostly quartzose and tending to homogenize with matrix due to thermal metamorphism. Not much fracturing or sulphide.
179	179.8	181.2	100	.19	
180				.21	
181	181.2	183.3	98	.35	
182				1.06	182.25-183.8: Small feldspar, black hornblende porphyry. Epidote disseminated and along fractures.

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183	183.3	184.8	98	1.46	183.8-184.05: Tillite. Clasts difficult to see - homogenisation.
184	184.8	187.8	100	4.75	184.05-189.1: Small feldspar, black hornblende porphyry. Common epidote disseminated and along fractures. Pale grey, altered ground mass. Uncommon, very thin sulphide veinlets cut the epidote alteration.
185				5.92	
186				1.29	
187	187.8	189.3	100	.84	
188				.64	
189	189.3	190.8	93	.70	189.1-190.05: Metasediment. Dark grey, fine grained, homogeneous.
190	190.8	193.8	100	1.23	190.05: Dolerite contact at 45deg to core axis.
191				.68	190.05-190.54: Very fine grained dolerite with 3-4mm ferromagnesian phenocrysts. Disseminated epidote alteration. Other alteration locally zoned on fractures containing actinolite-?chlorite-po veinlets with outer pale zone (?silicification) and inner dark zone all at 45deg to core axis.
192				10.05	190.54-192.9: Fine grained dolerite with common dark, actinolite veinlets.
193	193.8	195.8	110	37.60	192.9-194.25: Large-feldspar (sparse, to 15mm), black hornblende porphry with euhedral, bluish-green laths of ?pyroxene in very fine grained cream groundmass.
194				11.28	194.25-199.0: Fine grained dolerite with disseminated sulphide (?po) and scattered, thin veinlets of actinolite-sulphide (eg 195.55) and actinolite-sulphide (eg 198.95). Dark alteration of dolerite adjacent some veinlets.
195	195.8	196.8	83	31.02	
196	196.8	199.3	87	1.03	
197				1.89	
198				6.00	

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199	199.3	200.3	100	85.00	199.0-199.7: Small feldspar (sparse, to 8mm), black hornblende porphyry with pale blue-green?pyroxene. Very fine grained, cream (altered) groundmass to 199.6m, which passes to medium green-grey in colour. Large irregular patches of epidote and sulphide. Veinlets of py eg. 199.6-199.7.
200	200.3	202.8	100	1.5	199.7-199.9: Consists of about 50% by volume of sulphide, including minor chalcopyrite, together with magnetite, earthy dark minerals, actinolite and ?chlorite. Crude alignment 40deg to core axis.
201				2.94	199.9-200.0: Dolerite. Dark grey, fine grained, with irregular epidote-pyrite veinlets and disseminated sulphide.
202	202.8	205.8	105	1.16	200.0-218.53: Dolerite. Fine grained to medium grained with relatively coarse grained patchy, alteration to assemblages consisting of coarse and medium grained green ?amphibole clusters in medium grained felsic groundmass with disseminated sulphide & mt. Patches of this alteration become common after 203.7m. Margins of the altered patches may be relatively sharp, and parallel to contained, planar actinolite-sulphide veinlets eg 207.65m. At 202.15 an 8mm actinolite-sulphide veinlet is bounded by zones of dark silicate alteration, then by zones of coarse grained alteration. Similar zoning centred on actinolite-sulphide veinlet at 211.9.
203				.77	
204				.79	
205	205.8	208.0	97	1.28	
206				.85	
207				1.77	
208	208.0	211.8	98	8.53	
209				11.90	
210				1.47	
211	211.8	214.8	100	.83	
212				1.10	
213				1.60	

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214	214.8	217.8	99	1.85	
215				1.61	
216				3.10	
217	217.8	218.9	100	5.45	
218	218.9	219.4	100	6.86	218.53-220.0: Feldspar (abundant), black hornblende porphyry with dark grey groundmass showing patchy, pale alteration. Feldspars flow aligned. Disseminated epidote alteration, much of it in feldspars. Fracturing less regular than in dolerite, with veinlets containing epidote, ?chlorite, minor actinolite and sulphide (po).
219	219.4	220.8	98	3.65	
220	220.8	223.8	100	3.68	220.0-222.53: Dolerite with patchy, 'coarse grained' alteration. At least two sets of planar veinlets.
221				8.85	
222				.43	222.53-223.05: Porphyry. Strongly altered with cream and pale grey silicification of groundmass and phenocrysts. Epidote in disseminated patches cut by green silicate-sulphide (po) veinlets. A little disseminated sulphide.
223	223.8	226.8	101	9.4	223.05-224.0: Large-feldspar (abundant, to 20mm), black hornblende porphyry. Feldspars flow aligned. Disseminated epidote alteration. Also, epidote-sulphide veinlet.
224				11.4	224.0-234.2: Dolerite. Numerous planar fracture veinlets and common patches of 'coarse-grained' alteration. At least two sets of veinlets with actinolite-po and po.
225				4.53	
226	226.8	229.8	95	12.53	
227				27.3	
228				12.7	
229	229.8	232.8	100	13.7	

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230				5.5	
231				25.25	
232	232.8	235.8	100	39.8	
233				45.6	
234				55.4	234.2-235.78: Porphyry. Strong pale grey to dark grey silicification. Feldspars not discernible, black amphibole not much affected. Epidote with pyrrhotite in patches up to 30mm. Not regularly fractured like the dolerite.
235	235.8	238.8	102	54.2	235.78-236.52: Dolerite. Common planar fracture veinlets and 'coarse-grained' alteration eg 236.1: Good example of zoning adjacent 10mm actinolite-sulphide (po) veinlet with 10mm of fg dark alteration passing out into 'coarse grained' alteration with disseminated sulphide.
236				35.7	236.52-239.5: Small-feldspar (common), black amphibole porphyry with very fine grained, dark grey groundmass. Common epidote patches.
237				61.5	
238	238.8	239.7	90	65.4	
239	239.7	241.4	94	45.5	239.5-241.125: Dolerite. Mostly showing 'coarse-grained' alteration. Common planar fracture veinlets with actinolite-sulphide-magnetite. At 240.8m actinolite-sulphide veinlets cut epidote alteration.
240				57.7	241.125-241.4: Core (porphyry) probably misplaced from 243.25.
241	241.4	242.7	100	68.3	241.4-242.9: Tiny feldspar, tiny black hornblende porphyry with very fine grained, dark grey groundmass.
242	242.7	244.8	100	57.0	242.9-245.15: Feldspar, black hornblende porphyry with fine grained, medium grey groundmass. Epidote alteration related to very thin sulphide-epidote fracture veinlets.
243				46.3	
244	244.8	246.4	100	41.6	

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245				38.2	245.15-263.6: Dolerite. Substantial 'coarse-grained' alteration. Common thin actinolite veinlets, some with sulphide. At least two sets. Several small intervals of epidote alteration. Sulphide veining notable at 248.3-248.53 with po, ?minor cp, minor mt, epidote, quartz and actinolite. Compound veinlets at 261.7m with actinolite-sulphide-?mt and later veinlet of soft, honey-coloured, non-carbonate. Nice 10cm interval of alteration centred on 10mm actinolite minor sulphide veinlet at 260.65, bounded by dark alteration then coarse grained alteration.
246	246.4	247.8	89	22.21	
247	247.8	250.4	100	18.9	
248				13.6	
249				7.1	
250	250.4	253.6	100	8.3	
251				3.77	
252				10.7	
253	253.6	256.6	100	3.5	
254				5.9	
255				6.8	
256	256.6	259.5	100	4.7	
257				2.7	
258				16.6	
259	259.5	262.6	100	6.8	
260				6.8	

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261				1.5	
262	262.6	264.5	100	6.1	
263				4.9	263.6-269.4: Small feldspar (to 10mm). Porphyry. Altered with feldspars ranging through ghost outlines to uniform cream to pink, very fine grained groundmass. Common epidote alteration. About 1% disseminated sulphide. A few, thin epidote-sulphide veinlets.Eg 265-266.
264	264.5	265.5	98	2.9	
265	265.5	266.7	90+/-	8.64	
266	266.7	267.3	50+/-	28.39	
267	267.3	268.0	50+/-	11.12	
268	268.0	269.4	40+/-	18.1	
269	269.4	270.8	70	9.3	269.4-269.8: Dolerite. 'Coarse-grained' alteration passing to breccia of quartz-actinolite-minor sulphide-minor mt.
270	270.8	271.8	130	10.84	269.8-277.2: Feldspar (abundant, seriate, to 15mm), black hornblende porphyry with very fine grained, groundmass showing patchy pale alteration. Intervals with irregular epidote-sulphide veinlets, also calcite veinlets. Epidote-?chlorite-sulphide veinlets near bottom contact. Pale alteration of parts of ground mass-related to fractures.
271	271.8	274.8	100	13.72	
272				14.37	
273				11.85	
274	274.8	277.8	95	5.69	
275				11.54	
276				16.38	

Project: Cygnet **Exploration Licence:** EL29/97

Prospect: Mt Mary Mine **Hole Number:** CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
277	277.8	279.3	113	2.71	277.2-297.0: Dolerite. Substantial 'coarse-grained' alteration. Particularly well developed at 284.3-285.7 with well crystallised mt and minor sulphide. Very common thin planar fracture veinlets with actinolite-sulphide throughout. Vughy calcite veinlets 278.74-280.2m.
278				3.03	
279	279.3	280.8	76	4.6	
280	280.8	283.8	103	2.19	
281				9.37	
282				7.42	
283	283.8	286.8	103	1.82	
284				26.27	
285				17.72	
286	286.8	289.8	97	1.04	
287				7.19	
288				45.41	
289	289.8	292.8	101	5.26	
290				6.89	
291				1.30	
292	292.8	295.8	100	1.38	
293				3.81	

Project: Cygnet **Exploration Licence:** EL29/97

Prospect: Mt Mary Mine **Hole Number:** CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
294				5.08	
295	295.8	297.7	98	12.44	
296				8.83	
297	297.8	298.4	98	54.91	297.0-298.4: Small feldspar (common, to 10mm), black hornblende porphyry with creamy pink groundmass, passing to dark grey. Common epidote-sulphide alteration.
298	298.4	299.8	100	30.20	298.4-308.0: Dolerite. Medium grained with markedly fewer, scattered, smaller patches 'coarse-grained' alteration. Common thin actinolite fracture veinlets. Strong fracture at 306.7 with late, 6mm calcite-minor sulphide veinlet after actinolite veinlet.
299	299.8	301.8	98	10.96	
300				5.35	
301	301.8	303.9	95	4.42	
302				7.58	
303	303.9	304.8	98	3.10	
304	304.8	306.9	98	12.2	
305				18.22	
306	306.9	308.9	98	15.66	
307				18.15	
308	308.9	310.8	98	21.33	308.0-311.0: Large-feldspar (sparse, to 20mm), small feldspar (abundant, to 6mm), black hornblende, minor quartz porphyry with medium grey, fine grained groundmass. Scattered planar fractures similar to those in dolerite, with associated epidote alteration and pale alteration of groundmass. Some fractures contain thin epidote-minor sulphide veinlets, 8mm clacite veinlet at bottom contact.
309				33.6	

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Prospect: Mt Mary Mine **Hole Number:** CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
310	310.8	313.7	91	35.5	
311				18.4	311.0-336.35: Dolerite. Medium grained with scattered, small patches of 'coarse grained' alteration. Common, thin actinolite veinlets, some with sulphide. Occasional late, thin calcite veinlets in the same fractures. There is zoning related to fractures eg 332.75m: thin actinolite-sulphide veinlet with late, 2mm, median calcite veinlet, all bounded by thin epidote alteration then 3cm intervals of dark alteration.
312				18.15	
313	313.7	316.8	100	11.58	
314				17.08	
315				6.42	
316	316.8	317.4	90+/-	2.56	
317	317.4	319.8	100	2.8	
318				11.6	
319	319.8	322.8	99	11.5	
320				1.6	
321				6.7	
322	322.8	324.9	99	1.9	
323				5.2	
324	324.9	328.0	100	3.0	
325				1.2	

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Prospect: Mt Mary Mine **Hole Number:** CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3sl	Core Description
326				.96	
327				.87	
328	328.0	331.1	100	.9	
329				.76	
330				.83	
331	331.1	334.2	100	2.8	
332				6.5	
333				3.4	
334	334.2	337.3	100	4.3	
335				6.0	
336				27.2	336.35-336.65: Large feldspar (sparse, to 30mm) porphyry with very fine grained, dark grey groundmass. Common epidote alteration. Top contact intrusive against (later than) an actinolite-sulphide, planar fracture veinlet. Minor disseminated sulphide.
337	337.3	340.5	97	1.2	3336.65-346.15: Dolerite. Medium grained with relatively few, scattered patches of 'coarse grained' alteration. Common thin actinolite fracture veinlets, with associated 'coarse grained' alteration at 336.8, with strong sulphide at 342.95-343.15=pyrite, quartz, epidote, calcite against 10mm actinolite veinlet, all bounded by 20mm of coarse grained alteration..
338				1.2	
339				1.9	
340	340.5	343.6	99	4.5	
341				5.2	

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Prospect: Mt Mary Mine **Hole Number:** CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
342				12.9	
343	343.6	346.8	99	5.5	
344				.8	
345				.66	
346	346.8	349.8	99	10.5	346.15-346.7: Black amphibole (common, to 4mm) porphyry with very fine grained, fawn groundmass. Lamprophyre. Top contact cuts across (later than) an actinolite fracture veinlet.
347				10.9	346.7-347.2: Dolerite. Substantial 'coarse grained' alteration. Actinolite fracture veinlets. Strong veinlet at 355.95-356.08 with sulphide-mt and contained, late calcite veinlet.
348				5.8	347.2-347.55: Larger planar fracture vein with actinolite-calcite-py at 15deg to core axis, 1-4cm thick.
349	349.8	352.8	100	4.9	347.55-348.85: Black hornblende (small, common) porphyry with fine grained fawn-grey groundmass. Lamprophyre. Top and bottom contacts intrusive against (later than) fracture veins. Bottom vein compund with py-mt-actinolite-calcite and later phase of calcite with mt selvage.
350				2.9	348.85-386.55. Dolerite. Medium grained with a few small patches of 'coarse grained' alteration. Common planar fracture veinlets - mostly very thin actinolite, some with sulphide eg 353.85m actinolite-sulphide-late calcite eg 356.85 20mm actinolite with median 5mm sulphide-?mt-calcite-actinolite-honey coloured mineral. Compound veining and alteration present eg 365.8m where thin sulphide veinlets occur within actinolite veinlets with adjacent dark alteration then 'coarse grained' alteration. eg. 385m where 80mm of 'coarse grained' alteration contains actinolite veinlets, cut by late calcite veinlets.
351				3.9	
352	352.8	355.8	99	6.9	
353				4.4	
354				4.5	
355	355.8	358.4	96	8.9	
356				4.9	

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Prospect: Mt Mary Mine **Hole Number:** CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
357				1.7	
358	358.4	359.8	100	3.7	
359	359.8	361.8	100	4.6	
360				4.6	
361	361.8	363.9	95	3.5	
362				7.6	
363	363.9	367.0	95	3.0	
364				2.9	
365				2.4	
366				7.6	
367	367.0	370.1	98	1.3	
368				3.1	
369				2.2	
370	370.1	371.8	95	1.9	
371	371.8	373.8	100	1.9	
372				1.1	
373	373.8	376.8	99	1.3	

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Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
374				.9	
375				1.5	
376	376.8	379.8	93	.8	
377				1.9	
378				1.0	
379	379.8	382.8	97	1.1	
380				.9	
381				.9	
382	382.8	385.8	97	1.9	
383				1.0	
384				.98	
385	385.8	388.7	97	.96	
386				19.8	386.55-387.35: Black hornblende (common, small) porphyry with small, thin prisms of pale ?pyroxene and fine grained, medium grey groundmass. Lamprophyre.
387				24.4	387.35-405.0: Dolerite. Becoming finer grained. Minor 'coarse grained' alteration, scattered actinolite veinlets. Substantial coarse grained alteration at 404-405 with very fine grained, dark grey irregular porphyry patches. Very little sulphide.
388	388.7	391.8	103	2.2	
389				11.7	
390				19.3	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
391	391.8	394.8	98	1.8	
392				1.1	
393				12.6	
394	394.8	397.7	98	24.9	
395				16.8	
396				19.4	
397	397.7	400.8	100	7.32	
398				.91	
399				.85	
400	400.8	403.5	95	.92	
401				.61	
402				1.14	
403	403.5	405.8	98	.96	
404				8.94	
405	405.8	408.9	100	36.98	405.0-406.9: Compound intrusion. Large feldspar (sparse, to 25mm), black hornblende porphyry with fine grained, medium grey groundmass. Numerous patches of epidote alteration with sulphide and mt, surrounded by pale altered groundmass. Later intrusion of black hornblende porphyry with pale green ?pyroxene and very fine grained, dark grey groundmass. Lamprophyre. Bottom contact intrusive against (later than) a planar fracture veinlet with actinolite-sulphide-mt-calcite.
406				33.25	406.9-408.0: Dolerite. Patches of 'coarse grained' alteration.

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
407				3.24	
408	408.9	412.0	98+/-	11.40	408.0-408.5: Black hornblende porphyry. Lamprophyre.
409				4.66	408.5-409.65: Dolerite. Substantial 'coarse grained' alteration with scattered actinolite fracture veinlets eg 409.05 with late calcite-mt-?cp veinlet.
410				1.46	409.65-411.9: Black hornblende porphyry. Lamprophyre. Medium grey groundmass with buff alteration.
411				3.39	411.9-412.78: Dolerite. Patches of 'coarse grained' alteration, common actinolite fracture veinlets. Py veinlet at 412.1.
412	412.0	414.0	90	2.20	412.78-414.0: Black hornblende porphyry with buff, altered groundmass. Lamprophyre.
413				.54	
414	414.0	415.8	89	.86	414.0-422.53: Dolerite. Patches of 'coarse grained' alteration. Common fracture veinlets eg 422.15 15mm actinolite-py-minor epidote. Notable sulphide 422.16-422.30.
415	415.8	417.4	98	1.14	
416				3.59	
417				2.34	
418	418.9	420.4	113	1.60	
419				1.00	
420	420.4	421.8	100	.88	
421	421.8	423.4	75	1.26	
422				15.7	422.53-423.4: Black hornblende porphyry with altered, pale buff groundmass. Lamprophyre.
423	423.4	424.3	89	1.6	423.4-426.46: Dolerite. A few patches of 'coarse grained' alteration. Thin actinolite fracture veinlets.

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
424	424.3	427.3	106	1.17	
425				.88	
426				4.6	426.46-428.94: Black hornblende (unusually large-10mm) porphyry with pale prisms of ?pyroxene and patchy medium grey to pale grey groundmass. Lamprophyre. Common patches of epidote alteration with sulphide, ?disseminated mt in porphyry.
427	427.3	429.0	91	40.8	
428				24.9	428.94-433.37: Dolerite. Minor patches of 'coarse grained' alteration. Scattered actinolite veinlets, come with sulphide.
429	429.0	430.8	105	1.14	
430	430.8	433.8	97	.72	
431				1.27	
432				1.13	
433	433.8	436.3	98	24.66	433.37-440.13: Small feldspar (to10mm), black hornblende porphyry with fine grained grey groundmass. Patchy alteration of groundmass to pale grey and cream, with sulphide veinlets. Common epidote patches. Late carbonate veinlets. Top contact intrusive against (?later than) 'coarse grained' alteration in dolerite.
434				38.3	
435				31.3	
436	436.3	437.5	102	32.8	
437	437.5	439.8	100	43.9	
438				35.7	
439	439.8	442.8	100	31.9	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
440				16.3	440.13-441.31: Dolerite. Patches of 'coarse grained' alteration. Little fracturing.
441				13.6	441.31-441.96: Black hornblende porphyry with pale prisms of ?pyroxene (to 5mm) in fine grained buff groundmass. Lamprophyre.
442	442.8	444.3	87	4.8	441.96-444.25: Dolerite. Patches of 'coarse grained' alteration and scattered actinolite fracture veins. Zoned alteration at 442.4-442.6 with central 5m actinolite-sulphide-mt, then 25mm epidote-sulphide-mt-?quartz, then 40mm of dark silicate-epidote-mt, then 30mm of outer 'coarse grained' alteration with mt.
443				1.15	
444	444.3	445.5	95	16.9	444.25-444.5: Black hornblende porphyry with pale prisms of ?pyroxene and very fine grained, buff groundmass. Lamprophyre.
445	445.5	447.0	98	1.8	444.5-452.3: Dolerite. Scattered, small patches of 'coarse grained' alteration. Scattered, thin actinolite veinlets, some with sulphide eg 446.25m 50mm of silicate-sulphide, eg 446.7m 10mm actinolite-py-mt-other silicate with parallel bands of 'coarse grained' alteration, eg 452m 3cm actinolite-quartz-sulphide veinlet.
446				3.2	452.3-453.3: Large feldspar (sparse, to 15mm), black hornblende porphyry with very fine grained, medium grey groundmass showing patchy cream alteration. Epidote-sulphide alteration patches. Around 5-10% sulphide disseminated and in fractures.
447	447.0	448.6	100	2.8	
448	448.6	451.1	90	1.7	
449				2.1	
450				1.5	
451	451.1	452.3	92	1.2	
452	452.3	453.0	+/-89	9.8	
453	453.0	454.2	+/-90	10.8	453.3-460.6: Dolerite. Sparse, small patches of 'coarse grained' alteration. Several sets of thin actinolite veinlets. Small porphyry intervals 457.7-457.95m and at 458.7m.
454	454.2	455.0	+/-90	12.8	
455	455.0	456.2	+/-90	7.8	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
456	456.2	457.6	86	4.8	
457	457.6	459.3	94	6.96	
458				1.0	
459	459.3	460.5	+/-90	.81	
460	460.5	462.2	88	4.13	460.6-461.4: Small feldspar (common, to 8mm), black hornblende porphyry with very fine grained, medium grey groundmass showing patchy pale grey and cream alteration. Alteration clearly related to fracturing at 461.05. Common epidote-sulphide alteration though hornblende mostly exhibits sulphide alteration. Sulphide is common.
461				6.01	461.4-464.4: Dolerite. One interval, of coarse grained' alteration. Several sets of actinolite fracture veinlets.
462	462.2	463.4	92	.87	
463	463.4	466.2	95	1.1	
464				20.94	464.4-464.87: Porphyry similar 460.60-461.4.
465				.9	464.87-474.1: Dolerite. Fairly uniform to 467.3m, then scattered patches of 'coarse grained' alteration. Scattered actinolite veinlets, also very thin, late carbonate veinlets.
466	466.2	467.9	99	.86	
467	467.9	469.7	98	.86	
468				1.09	
469	469.7	470.8	97	.94	
470	470.8	471.5	97	.72	
471	471.5	472.2	98	.76	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
472	472.2	473.4	98	.69	
473	473.4	474.5	98	.92	
474	474.5	475.9	93	1.75	474.1-475.0: Large feldspar (to 15mm) porphyry with very fine grained, medium grey groundmass showing patchy pale grey and cream alteration. Strong epidote-sulphide alteration. Also, sulphide disseminated and in veinlets, giving 5-10% overall sulphide.
475	475.9	478.6	96	2.6	475.0-483.5: Dolerite. A very few, scattered, small patches of 'coarse grained' alteration. Common very thin, actinolite fracture veinlets.
476				.97	
477				.96	
478	478.6	479.8	+/-90	1.0	
479	479.8	781.9	81	.9	
480				.76	
481	481.9	482.7	98	.8	
482	482.7	484.8	100	.8	
483				.7	483.5-484.6: Small feldspar (to 4mm) porphyry with unusually uniform very fine grained, cream groundmass. Very minor epidote. Sulphide disseminated and in very thin veinlets giving 2-4% overall. Possible disseminated mt.
484	484.8	486.3	87	1.2	484.6-487.2: Dolerite. As for 475-483.5m.
485				.8	
486	486.3	487.4	+/-90	.7	
487	487.4	488.8	98	22.4	487.2-487.65: Large feldspar (sparse, to 20mm), small felspar (abundant, to 3mm), black amphibole porphyry with very fine grained, medium grey groundmass that is locally altered to cream along fractures. Minor epidote-sulphide alteration. Thin sulphide veinlets.

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
488	488.8	490.5	90	.9	487.65-494.4: Dolerite. Uniform to 490.5, then patches of 'coarse grained' alteration. Note: core is very broken in places after 452m.
489				1.1	
490	490.5	491.4	90	1.0	
491	491.4	493.2	98	1.0	
492				1.2	
493	493.2	494.4	96	2.4	
494	494.4	495.0	83	110.1	494.4-495.95: Black amphibole (abundant, to 4mm) porphyry with pale prisms of ?pyroxene and unaltered, fine grained, medium grey ground mass. Lamprophyre. Sulphide disseminated and in irregular veinlets giving 1-3% overall. Possible disseminated mt.
495	495.0	493.1	70	60.1	495.95-498.9: Dolerite. Substantial 'coarse grained' alteration. Common actinolite veinlets, some with sulphide.
496	496.1	497.1	70	34.1	
497	497.1	498.2	99	17.5	
498	498.2	499.7	97	9.7	498.9-499.9: Strongly altered (silicified) porphyry with cream to pale grey, very fine grained groundmass. From 499.15 there is a later intrusion of lamprophyre.
499	499.7	500.9	92	83.6	499.9-539.1: Dolerite. Becomes fine grained by 520m. Substantial 'coarse grained' alteration 501.3-502 and 522.9-523.1, elsewhere it is minor. Scattered actinolite fracture veinlets throughout, some with sulphide eg 510.61m actinolite-py-quartz, late quartz vein. 516.75-516.95 py-?mt-quartz. Several veinlets associated with minor 'coarse grained' recrystallisation. Zeolite coatings on scattered fractures, notably after 510m. Vughy quartz-carbonate vein at 502.4m.
500	500.9	502.2	92	3.8	
501				6.0	
502	502.2	503.0	98	16.9	
503	503.0	504.7	80	2.0	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
504	504.7	505.6	90	1.7	
505	506.6	506.0	65	.9	
506	506.0	507.4	80	1.3	
507	507.4	508.8	86	1.8	
508	508.8	509.2	98	1.0	
509	509.2	510.4	67	1.9	
510	510.4	511.5	69	3.4	
511	511.5	512.7	88	3.0	
512	512.7	513.0	93	.95	
513	513.0	514.1	81	1.6	
514	514.1	515.3	99	1.1	
515	515.3	516.3	97	1.7	
516	516.3	517.8	94	14.5	
517	517.8	518.7	110	5.9	
518	518.7	519.4	96	.9	
519	519.4	521.2	99	25.3	
520				3.6	

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Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
521	521.2	522.1	99	2.5	
522	522.1	523.5	79	61.77	
523	523.5	524.2	114	5.4	
524	524.2	525.3	92	1.2	
525	525.3	525.9	+/-90	.9	
526	525.9	527.1	94	.9	
527	527.1	528.2	97	1.0	
528	528.2	529.0	98	6.1	
529	529.0	529.8	99	1.4	
530	529.8	530.9	95	.9	
531	530.9	532.7	105	1.1	
532	532.7	533.8	97	1.1	
533	533.8	534.3	97	3.6	
534	534.3	535.2	85	1.2	
535	535.2	536.8	106	.9	
536	536.8	538.2	98	.8	
537				.8	

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Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
538	538.2	539.5	98	1.5	
539	539.5	540.3	98	17.8	539.1-540.0: Large feldspar (common, to 20mm), black hornblende porphyry with very fine grained, medium grey groundmass showing patchy, pale grey alteration.
540	540.3	541.4	98	1.2	540.0-543.7: Dolerite. Fine grained with a few, small patches of 'coarse grained' alteration associated with fractures. Scattered actinolite fracture veinlets, no sulphide. Small irregular patch of porphyry at 542.9m.
541	541.4	545.0	96	.9	
542				4.1	
543				10.7	543.7: Dolerite contact. Core broken. Attitude unknown.
544				5.1	543.7-544.2: Strongly hornfelsed, fine grained sedimentary rocks with pale, hard bands at 45deg to core axis.
545	545.0	545.8	80	NO SAMPLE	544.2-546.4: Metamorphosed dark grey pebbly sandy silty mudstone. Pebbles to 30mm, mainly quartzose. Some clasts with recrystallised mafic assemblages and pale alteration halos in adjacent matrix. Very broken core.
546	545.8	547.2	79	.3	546.4-548.1: Pebbly mudstone without altered, mafic clasts, no cleavage.
547	547.2	548.9	75	.4	
548	548.9	549.7	88	.33	548.1-553.9: Medium to dark grey metasedimentary rocks. Fine grained, easily scratched (micaceous). Pervasive, spaced cleavage of uniform orientation 40deg to core axis. Cleavage defined by very thin (<1mm), discontinuous seams of very fine grained, granular black mineral and sulphide. Cleavage partings are moderately lustrous. Open kink bands with 10mm limbs are present in places. These rocks look like some low grade Tyennan phyllites. Thin section work might provide confimation. The cleavage is cross-cut by a 50mm thick porphyry at 551.6m.
549	549.7	550.4	71	.3	
550	550.4	551.3	78	.55	
551	551.3	552.3	70	.4	
552	552.3	553.9	81	.95	

Project: Cygnet **Exploration Licence:** EL29/97

Prospect: Mt Mary Mine **Hole Number:** CM-1

Logged by: Nic Turner

Depth (m)	Core Recovery - From	Core Recovery - To	Core Recovery - %	Magnetic Susceptibility x10-3si	Core Description
553	553.9			.6	END OF HOLE