

GEOLOGICAL LOG

Project:	Cape Sorell	Exploration Licence:	EL10/97
Prospect:	Pelias Cove	Hole Number:	PC-1
Logged By:	Luke Vanzino		

DEPTH (m)	RECOVERY			CORE DESCRIPTION	C.B/CV.A C.V.A	MAGNETIC SUSCEPTIBILITY	COMMENTS
	From	To	%				
0	0	4.5	87	0-27.45m: SILTSTONE. Very fine sand to siltstone size, 1/8 to <1/16mm. Generally massive, minor finely laminated horizons. Pale grey in colour. Liesegang rings in upper section.		0	
1						0	
2						0	
3						4	
4						0	30cm of Fondu casing cement
5	4.5	7.5	90			0	
6						0	
7						0	
8						0	
9						0	
10	7.5	10.5	55			0	1m zone of lost core
11	10.5	12.5	82			0	
12						0	
13					CVA 0deg	0	
14	12.5	14.5	95			0	
15	14.5	15.8	100			0	
16	15.8	17.5	82			0	
17	17.5	19.3	100		CBA 60deg	0	
18						0	
19	19.3	20.3	75			0	Inferred fault - angular clasts in mud matrix - 0.3m
20	20.3	22.5	68			1	Inferred fault - angular clasts in mud matrix - 0.4m
21						2	
22						0	
23						0	
24	22.5	25.5	95			0	
25	25.5	28.1	100			0	
26						0	

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DEPTH (m)	RECOVERY			CORE DESCRIPTION	C.B/CV.A C.V.A	MAGNETIC SUSCEPTIBILITY	COMMENTS
	From	To	%				
27				27.45-30.3m: SILTSTONE. Massive, mid to dark grey in colour, indurated bleached appearance suggests silicic alteration.		0	
28						0	
29	28.1	30.3	100			0	
30	30.3	32.0	79		CVA 0deg	0	
31				30.3-34.20m: FAULT ZONE. Within pale grey siltstone unit. Siltstone clasts in ochre clay matrix.		1	
32						0	
33						0	
34	32.0	34.2	63	34.20-42.30m: SILTSTONE. Massive, mid grey to dark grey with localised bleaching.		0	0.5m zone of core loss
35	34.2	37.0	76			0	
36						0	
37						0	
38						0	
39	37.0	40.5	97			0	
40	40.5	43.5	100			0	
41						0	
42				42.30-55.0m: SILTSTONE. Laminated unit, pale grey with red brown bands of haematitic siltstone < lam @ 42.30-44.00.		0	
43					CBA 55deg	0	
44						0	
45	43.5	46.5	100			0	
46						0	
47	46.5	48.4	100	Haematitic bands associated with black carbonaceous?? Lamellae.		0	
48	48.4	49.4	90		CBA 50deg	0	
49	49.4	50.4	100			0	
50	50.4	52.5	97			0	
51	52.5	53.1	100			0	Hole orientation - Dip 44deg Azimuth 280deg mag
52	53.1	55.2	83.3			0	
53					CBA 55deg	0	

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DEPTH (m)	RECOVERY			CORE DESCRIPTION	C.B/CV.A C.V.A	MAGNETIC SUSCEPTIBILITY	COMMENTS
	From	To	%				
54						0	
55	55.2	57.0	100	55.0-57.85m: SILTSTONE. Massive pale grey unit @ 56.0-56.1 minor laminations.		0	
56	57.0	58.5	30			0	Inferred fault - angular clasts in mud matrix - 0.70
57	58.5	61.1	96			0	
58						0	
59					CBA 70deg	0	0.8m zone of lost core
60	61.1	62.4	77			0	
61	62.4	63.8	100			0	
62						0	
63					CBA 65deg	0	Inferred fault - clay zone - 0.25m.
64						0	Ferruginous, oxidised zone with in situ laminae visible. Oxidation along fault?? 1.4m wide.
65	63.8	66.6	57			0	
66	66.6	67.5	100		CBA 66deg	0	
67	67.5	68.6	100			0	
68						0	
69	38.6	70.4	55			0	
70	70.4	71.3	100			0	Ferruginous, oxidised zone with in situ laminae visible. Oxidation along fault?? 0.5m wide.
71	71.3	73.5	95			0	
72	73.5	74.6	100			0	
73						0	Ferruginous, oxidised zone with in situ laminae visible. Oxidation along fault?? 0.35m wide.
74	74.6	76.5	100		CBA 55deg	0	Ferruginous, oxidised zone with in situ laminae visible. Oxidation along fault?? 0.30m wide.
75	76.5	78.3	100			0	
76						0	
77						0	
78						0	

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DEPTH (m)	RECOVERY			CORE DESCRIPTION	C.B/CV.A C.V.A	MAGNETIC SUSCEPTIBILITY	COMMENTS
	From	To	%				
79	78.3	79.9	100			0	
80	79.9	81.0	91			0	
81	81.0	82.7	100			0	
82	82.7	83.6	100			0	
83						0	
84	83.6	85.3	100			0	
85	85.3	87.4	100			0	
86	87.4	89.3	100			0	
87					CBA 65deg	0	
88						0	
89	89.3	91.5	100			0	
90	91.5	94.5	100			0	Ferruginous, oxidised zone, poorly consolidated, liesegang rings 4m in width.
91						8	
92						2	
93				93.30-98.0m: SILTSTONE. Massive, pale to mid grey unit.		7	
94	94.5	97.0	100			2	
95						0	
96						0	
97	97.0	99.1	100			0	
98				98.0-100.60m: SILTSTONE. Laminated unit.		0	98.40 - 100.60 Faulted segments with markedly differing CBA's juxtaposed.
99	99.1	102.1	100			0	
100				100.60-177.0m: BRECCIA.		0	
100				- Hydraulic fracturing evidenced by 'jigsaw textures'.			
100				- Laminated siltstone intervals are interpreted to be large transported blocks within this 75m+ fault zone.			
100				- Silicified pelite clasts with quartz veining alongside unaltered laminated siltstone clasts suggests an alteration event prior to faulting/brecciation.			
100				2. A well consolidated siltstone matrix.			
100				1. A poorly consolidated, orange brown, ferruginous, oxidised clay OR			
100				- Fault Breccia unit composed of angular poorly sorted, polymiche sedimentary clasts (laminated siltstone, fine grained sandstones, silicified dark grey pelite) in either:			

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	From	To	%				
101						0	
102	102.1	105.2	100			0	Hole Orientation - Dip 42deg Azimuth 280deg mag
103						0	
104						0	
105	105.2	108.4	100			0	
106						0	
107						0	
108	108.4	111.6	100			0	
109						0	
110						0	
111	111.6	114.8	100			0	
112						0	
113						0	
114	114.8	118.0	100			0	
115						0	
116						0	
117						0	
118	118.0	121.15	100			0	
119						0	
120						0	
121	121.15	124.3	100			0	
122						0	
123						1	
124	124.3	127.4	100			0	
125						1	
126						0	
127	127.4	128.9	93			0	
128	128.9	131.4	100			0	
129						0	
130						0	
131	131.4	133.5	100			1	
132	133.5	134.7	100			2	
133						0	
134	134.7	135.8	0			0	
135	135.8	136.5	85			0	
136	136.5	139.35	42			0	

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DEPTH (m)	RECOVERY			CORE DESCRIPTION	C.B/CV.A C.V.A	MAGNETIC SUSCEPTIBILITY	COMMENTS
	From	To	%				
137						0	134.70 - 144m A zone of extensive core loss, poor recovery, poorly consolidated ocre (breccia unit) and hole collapse gravels and muds. Fault?
138						0	
139	139.35	140.2	100			No Core	
140	140.2	140.8	100			0	
141	140.8	142.5	100			119	
142						1	
143	142.5	144.0	100			0	
144	144.0	145.3	77			0	
145	145.3	148.5	97			0	
146						0	
147						0	
148	148.5	151.5	97			0	
149						0	
150						0	
151	151.5	154.5	73			0	
152						0	
153						0	Hole Orientation - Dip 42deg Azimuth 280deg mag
154	154.5	156.2	0			0	
155						No Core	
156	156.2	158.1	0			No Core	
157						No Core	154.0-161.7m Zone of extensive core loss and minimal recoveries. Fault?
158	158.1	160.5	25			No Core	
159						0	
160	160.5	161.7	0			No Core	
161	161.7	163.5	97	@161-173.40 Major zone of silicification with late stage quartz veining <3cms over printing the breccia unit.		No Core	
162						0	
163	163.5	166.5	0			0	
164						No Core	
165						No Core	
166	166.5	167.7	100			No Core	
167	167.7	168.2	100			0	
168	168.2	169.5	100			0	

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	From	To	%				
168							
169	169.5	172.5	100			0	
170						0	
171						0	
172	172.5	175.2	100			0	
173				@173.40-174.70 brecciated dark grey to black pelite interval.		0	
174						0	
175	175.2	175.8	100			0	
176	175.8	178.5	100			0	
177				177.0-193.5m: MUDSTONE. Dark grey and pale grey fine to thick laminae. - Biogenic pyrite as discrete rounded masses or lenticular masses parallel to laminae and disseminated throughout this lithotype. (<1%).	Fault surface @ 177m	0	
178	178.5	179.4	11			0	
179	179.4	179.6	50			0	
180	179.6	181.5	100			0	
181	181.5	181.8	100			0	
182	181.8	184.5	100		CBA 45deg	0	
183						0	Late stage quartz veining and spatially associated brecciation @ 179.6-180.2
184	184.5	187.5	100			0	
185						0	
186						0	
187	187.5	190.5	100			0	
188					CBA 45deg	0	
189						0	Late stage quartz veining and spatially associated brecciation @ 185-185.8
190	190.5	193.5	100			0	
191						0	Late stage quartz veining and spatially associated brecciation @ 188.6-191.3
192							
193				193.5m: END OF HOLE.			193.5 END OF HOLE

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