614151

DRILL LOG COVER SHEET

Project: Cape Sorell **Exploration Licence:** EL09/98

Prospect: Hill 99 **Hole Number:** H99-3

Co-ordinates: **E** 370225 **N** 5306150 **Logged by:** Sean Westbrook

RL Collar: 035ASL

Azimuth: 270m/257g

Inclination: -45deg

Depth: 117.3m

Hole Size:

	FROM	TO
HQ	0	52.8
NQ	52.8	117.3

Commenced: 04 July 1999

Completed: 30 July 1999

Drillers: DDT - Matt Semmens

Drill Type: DT500

Comments:

GEOLOGICAL LOG

Project:	**Cape Sorell**	**Exploration Licence:**	**EL09/98**
Prospect:	**Hill 99**	**Hole Number:**	**H99-3**
Logged By:	**Sean Westbrook**		

DEPTH (m)	RECOVERY From	To	%	CORE DESCRIPTION	C.B/CV.A C.V.A	MAGNETIC SUSCEPTIBILITY	COMMENTS
0	0	5.5	24	**0-41.2M:** GABBRO-DIORITE. Massive, coarse to medium grain, granular, dark green porphyritic gabbro - diorite? Strongly chlorite altered. Disseminated trace euhedral pyrite throughout.		0	0-10.5m: Oxidised, chloritic (s) gabbro with disseminated pyrite and disseminated magnetite. Iron oxide staining & "fase gossan" due to oxidation and leaching. Disseminated magnetite @ 0m to ~19m.
1						0	
2						0	
3						0	
4						0	
5	5.5	7.5	65			0	
6						0	
7	7.5	12.8	79			0	
8						1886	
9						25	
10						0	
11						9	
12	12.8	14.5	76			28	
13						2385	
14	14.5	15.0	100			322	
15	15.0	17.5	100			538	
16						3935	
17	17.5	19.5	100			63	
18						3098	
19	19.5	22.4	86			11	
20						52	
21						36	
22	22.4	24.0	100		CV-40deg	25	
23						73	
24	24.0	25.8	100			16	
25	25.8	29.5	100			129	
26						39	
27						311	
28						160	
29	29.5	32.5	100			417	

GEOLOGICAL LOG

DEPTH (m)	RECOVERY From	RECOVERY To	RECOVERY %	CORE DESCRIPTION	C.B/CV.A C.V.A	MAGNETIC SUSCEPTIBILITY	COMMENTS
30						25	
31						85	
32	32.5	33.7	100			156	
33	33.7	36.0	95			4	
34						18	
35						0	
36	36.0	38.3	100			11	
37					CV-45deg	36	
38	38.3	41.4	100			33	
39						32	
40						49	
41	41.4	43.6	100	**41.2-90.9m**: CHLORITE-FUCHSITE PSEUDOBRECCIA. Schistose gabbro-diorite pseudobreccia ie, blocky fuchsite +/- chlorite altered gabbro/diorite clasts in chloritic schistose matrix.		32	
42						23	
43	43.6	45.5	100			14	
44						22	
45	45.5	48.6	100			4	
46						16	
47					CV-30deg CV-45deg	7	Dominanat cleavage core-CV angle is ~30deg. The cleavage angle of ~40-45deg is usually only recognised by breaks in the core. 30deg CV is dominant visual CV.
48	48.6	50.5	100			16	
49						0	
50	50.5	52.8	100			0	Camera Orientation (@50m): Azimuth=273, Dip=-46.
51						8	
52	52.8	53.5	86			19	
53	53.5	56.5	100		CV-40deg CV-33deg	14	@ ~53.6m: Carbonate vein x-cutting cleavage & fuchsite altd clast.
54						47	
55						7	
56	56.5	61.0	100			1	
57					CV-45deg	0	
58						2	
59						9	

GEOLOGICAL LOG

DEPTH (m)	RECOVERY From	To	%	CORE DESCRIPTION	C.B/CV.A C.V.A	MAGNETIC SUSCEPTIBILITY	COMMENTS
60						2	
61	61.0	62.5	93			23	
62	62.5	64.9	100			7	
63						26	
64	64.9	67.6	100			5	
65						2	
66						16	
67	67.6	70.0	92			25	
68						8	
69						1	
70	70.0	72.7	100			4	
71						11	
72	72.7	75.8	100			0	
73					CV-30deg	19	
74						21	
75	75.8	78.9	100			2	
76						14	
77						1	
78	78.9	81.5	100			0	
79						12	
80						0	
81	81.5	84.5	100			0	
82						1	
83						14	
84	84.5	87.0	100			16	
85						2	
86					CV-30deg CV-45deg	1	
87	87.0	90.1	100			5	87.10 - 90.90: Gabbro-sediment contact: gabbro (diorite?) appears to interfinger with chloritised sediment.
88						21	88.12 - 88.35: Pyrite-chalcopyrite blebs(10-30%) display ductile deformation to be stretched parallel with dominant CV.
89						12	
90	90.1	92.4	91	**90.9-92.04**: MASSIVE CARBONATE ALTERATION. Grey-white siliceous carbonate (dolomite) pervasive alteration with disseminated fg pyrite throughout.		0	

GEOLOGICAL LOG

DEPTH (m)	RECOVERY From	To	%	CORE DESCRIPTION	C.B/CV.A C.V.A	MAGNETIC SUSCEPTIBILITY	COMMENTS
91						42	
92	92.4	95.5	100	**92.04-97.25:** FUCHSITE ALTERATION. Intense fuchsite altered pseudo breccia? Diorite or volcaniclastic?? Trace fine grain pyrite throughout.	CV-43deg CV-26deg	1	
93					CV-30deg	0	
94						2	
95	95.5	98.0	100			0	
96						7	96.35-96.65m: Quartz-carbonate +/- sphalerite-galena-pyrite (to 5%) veining. Sulphide bearing veins occur with most intense fuchsite alteration.
97				**97.25-98.4:** MASSIVE CARBONATE ALTERATION. Siliceous(s) pervasive carbonate alteration with subordinate talc and fuchsite.		2	
98	98.0	100.3	100	**98.4-101.15m:** SHEARED GRAPHITIC SHALE. Brecciated & sheared quartz-carbonate veined graphitic shale silicifed (m-s)		0	98.4-101.15m: (Sheared carb-qtz veined graphitic shale) veins are stretched and boudinaged // to the dominant cleavage/schistosity. This zone flanks the shear. NB: 30cm zone of pyrite clasts from 98.4m.
99					CV-40deg CV-30deg	21	
100	100.3	103.4	97			5	
101				**101.15-117.3m:** SHEAR ZONE. Chloritic schist and puggy clay.		30	
102						1	
103	103.4	106.5	100			19	
104						2	
105					CV-27deg CV-35deg	18	
106	106.5	109.5	100			5	
107						4	
108						11	
109	109.5	111.0	100			9	
110						1	
111	111.0	113.5	72		CV-30deg	0	
112						0	
113	113.5	116.5	69			0	

GEOLOGICAL LOG

DEPTH (m)	RECOVERY			CORE DESCRIPTION	C.B/CV.A C.V.A	MAGNETIC SUSCEPTIBILITY	COMMENTS
	From	To	%				
114						0	
115						0	
116	116.5	117.3	72			1	116.5-117.0: Strongly chloritic altered and siliceous gabbro/dolerite relicts within chloritic schist.
117				**117.3m**: END OF HOLE		0	

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