SEDIMENTARY HOLDINGS NL - DRILL LOG

PROJECT: Forster TENEMENT: EL 1784 STATE: Tas

Hole No: FRC9 Cordinates: E N (AMG:) Total Depth: 102m

Collar 5m Azimuth: 090° AMG Declination: −50° Surveys: Comm: 27.7.19 Completed: 30/5/19

Precollar: Hole/Core Size: Logged by: JAW/JB/TCS

From	To	Rock Type	Min/Alter	Description	Au	Ag	As	Cu	Pb	Zn	Ni	Cr
0	1	clay/gravel		red/pale khaki/brown clay minor gravel road covering & base								
1	4	mudstone		grey Permian, minor carb? pebbly mudstone/clayey qtz								
4	7	mudstone		grey/white sandy mudstone slight change to above unit/minor sand 4-5m?								
7	8			grey clay with white kaolin like chips								
8	10			grey clay with minor brown clay								
10	13			grey & minor brown clay with white & Fe stained silica chips								
13	15			red/brown clay (5-10%) with minor brown & clear? chips								
14	15			Qtz, skarn, goethite brown clay/mud.								
15	16		(fg) spinel? MnO.	Geothenite, Qtzite, Qtz, <5% skarn dark red clay.								
16	17		MnO_x	as above <2% skarn								
22	—	—	—	Drilling difficulties								
17	18		MnO	Geothenite, skarn? (15-20%?), Silica brown clay								

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From	To	Rock Type	Min/Alter	Description FRC 9.	Au	Ag	As	Cu	Pb	Zn	Ni	Cr
18	19		MnO	Qtzite, geothevite, dark to mod brown clay (note: chips washed well)								
19	20		MnO	Silica (qtzite?), geothevite (cream, pale brown qtzite contains spinel?) (samp. was pale grey)								
20	21		minor spinel (cr)	dark brown sample, mid grey silica with fibre qtz inclts geothevite								
21	22			dark brown sample, qtzite (grey/brown). (minor spinel?), geothevite								
22	23		minor spinel	dark brown sample. grey-brown qtzite extensive multiple staged qtz veining in some chips. veining quite prolific								
23	24		MnO	qtzite (grey) with mod qtz (white) veins, dark brown sample MnO coating on joints. Minor FeO pale brown. Trace green clay								
24	—	—	—	back into clay, drilling trouble, hole closing around string								
24	25			Ferruginous qtz, geothevite stained dark brown sample, cubic rock chips indicate silica / brown clay.								
25	26			Dark brown → off white clay geothevite 20-30% Ferruginous clay.								

Poor sample return a couple of bags

From	To	Rock Type	Min/Alter	Description FRC 9	Au	Ag	As	Cu	Pb	Zn	Ni	Cr
26	27		MnO	cream, pale green, brown clay								
27	28		MnO	Apple green, white, mid brown clay.	Possibly Ni colouration							
28	29		MnO ?	Dark grey silica, pale green skarn →				free Cu in skarn? (flakes on surface)				
29	30		MnO	Pale green material with sandy								
			Spinel?	texture, quite hard & Fe stained								
				host for spinel? Dark grey qtz								
				material with qtz veins								
30	31		MnO spots	Soft white rock with minor Fe staining (Tremolite?)				Poor return				
				sandy texture, no fizz, replacing								
				granular pale brown, hard rock								
				no fizz								
31	32		MnO	Sample brown clay (Drilling Trouble)								
				Pale green material similar to 29-30								
				but softer, this is actually an alteration?								
				coating on dark grey/green rock (granular)								
32	33			Sample brown clay								
				Dark grey hard (silrep?) or mafic vol.								
				no [illegible] visible.								
33	35			medium grn/brn fg MV								
				minor white alt phase								
35	36			AA but white alt. phase much stronger (40%)								
36	37			medium brown MV, 25% white alt @ 10% chalcedonic silicas (glassy)								
37	38			brown fg MV? 30% white alt phase, soft, no fizz								
38	39			Silica blue/grey, dense, no veining, major change								
39	40			Silica blue/grey & white, white qtz Xtals on surface of blue/grey silica filling vugs?								
40	42			Grey white silica, Qtz, minor clay								

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From	To	Rock Type	Min/Alter	Description FRC 9	Au	Ag	As	Cu	Pb	Zn	Ni	Cr
42	43			massive blue/grey silica, trace sulphide								
				trace qtz vein, 10% (minor) white alt phase								
43	44			pale grey dry powdery sample								
				white carbonate/calcite (marble?) (HCl fizz)								
				blue/grey & white silica								
44	45			pale green & off white marble (HCl fizz)								
				relict So? grn is probably serp								
45	46			white/medium grey marble								
				v minor pale grn & pink								
46	47			med grn (serp) marble, minor dk grn/blk								
				material with trace sulph.								
47	48			pale green to off white marble								
				with v fine veinlets/fractures, dry pale powdery sample								
48	49			med grey MV? with px? phenos, trace py & marcasite								
				minor dk grn chips similar to MV up hole								
				contains v. little marble, well defined boundary, weakly magnetic								
49	50			AA for 20% of sample : boundary Then								
				off white/pale green marble (minor serpentine)								
50	51			massive off white marble. minor v. pale grey								
51	52			white - pale grey marble, v. minor pale green, Trace MV?								
52	53			off white/med grey marble (massive), 20% dark grn/blk veins?								
				trace blue/green Ni? clay								
53	54			Note: will have minor contamination from 52-53 as the sample from								
				this interval was put back into 53-54 tray.)								
				Small veinlet serpentine in grey/pale green marble. Trace MV? with								
				Fe coating								

From	To	Rock Type	Min/Alter	Description FRC 9	Au	Ag	As	Cu	Pb	Zn	Ni	Cr
54	55			massive off white marble								
55	56			massive white/grey marble								
56	57			massive medium grey marble								
57	58			massive off white marble trace M/V								
58	59			V pale green (± V pale blue) marble								
59	60			off white v. pale green marble, almost clear soft non figs material								
				chalcedony? trace XX								
60	61			v pale blue/off white marble (20%) minor dark green serpentine								
61	62			off white & pale green marble serpentine (dark green/grey/brown phase								
				volcanic? @ 30-40% with white phase throughout (prog?))								
62	63			very pale green & off white marble, relict ?so?								
63	64			off white/pale grey massive marble, v minor pale grn marble								
64	65			off white/v pale grey marble								
65	66			off white/grey marble								
66	67			v pale blue-off white marble								
67	68			off white - v pale green marble also very pale blue								
68	69			white, v pale green, v pale blue marble, minor calcite veinlets								
69	70			off white to v pale green material, minor material XX as in 59-60								
70	71			off white/grey marble, 30% v pale blue/v pale green marble								
71	72			off white/grey marble (massive) 10% v pale green marble								
72	73			v pale apple green & off white/pale grey marble								
73	74			apple green & pale grey marble, minor off white								
74	75			off white/grey marble								
75	76			pale grey marble with 15% apple green marble								
76	77			v pale grn & off white marble								
77	78			off white & grey marble, with 20-30% apple grn marble, evidence								
				for grey & green co-existing								

From	To	Rock Type	Min/Alter	Description FRC 9	Au	Ag	As	Cu	Pb	Zn	Ni	Cr
78	79			medium apple green & off white to v pale grey marble (green = serpentine)								
79	80			Off white marble								
80	81			cream marble & 30% dark grey/black silica (chlorite/act.)								
81	82			creamy marble, black actinolite, ? oxidation, Fe O, green jade looking material								
82	83		^	medium grey/green IV? (vfg) with phenocrysts of px								
83	84		chromite	dark grey rock, & chromite flecks, possible banding 20% serp Dolerite? (hard dark								
84	85			med grey/brown vfg volc (Dolerite dyke?) similar to 82-83								
			^	minor (20%) apple green serp.								
85	86		^	Dolerite dyke, serpentine & marble. Dolerite dark grey & slightly red								
				serpentine appears to occur independently from any of the other rock types (vein)								
86	87			grey brown fg Mafic dyke, px phenocrysts, trace py., trace calc. veinlets								
				30% white/pale grey marble								
87	88			fg dark grey rock (dyke) Mafic with minor white qtz veins (carb)								
88	89			medium grey/brown/green fg Mafic rock - dyke?								
89	90			fg mafic dyke rock (dark grey) minor carb (veins)								
90	91			medium grey/grn fg Mafic, trace py, trace calc veins								
91	92			grey fg Mafic with minor calcite veining								
92	93		^	dark grey vfg Mafic with minor calcite veining (chilled margin of Dyke)								
93	94			green & pink marble & 30% MV (dyke) & 10% silica								
94	95		^	dark grey fg Mafic dyke & grey/off white/green marble								
95	96			vfg volcanic/chilled margin dolerite, 40% medium dark grey								
			Silica	silica, 20% green/white marble								
96	97			dark grey silica, off white carbonate, serp., qtz X tals visible in silica								
97	98			Off white, grey, green marble								
98	99			white/pale grey/minor pale green marble, ? dyke margin contamination								

From	To	Rock Type	Min/Alter	Description ~~FRC~~ 9	Au	Ag	As	Cu	Pb	Zn	Ni	Cr
99	102			White & green marble with 30% CHC fg mafic dyke								
				EOH 102 m								