376254

SEDIMENTARY HOLDINGS NL - DRILL LOG

Pg 1 of

PROJECT: Forster **TENEMENT:** EL 11/84 **STATE:** Tas

Hole No: FRC 20 **Cordinates:** E N (AMG:) **Total Depth:**

Collar: 6m **Azimuth:** 090° **Declination:** -60° **Surveys:** 75m 090°-60° **Comm:** 25/6/96 **Completed:**

Precollar: **Hole/Core Size:** 140m 096°-61° **Logged by:** JAWC

From	To	Rock Type	Min/Alter	Description	Au	Ag	As	Cu	Pb	Zn	Ni	Cr
0	1			red & brown clay with pebbles & plant material								
1	2			red & brown clay								
2												
2m				Water								
6	7			PVC casing contaminating sample								
2	3			grey & brown: sandy clay								
3	4			red & brown clay with minor plant material.								
4	5			red & green skarn (talc) with minor veinlets								
				contains quite a lot of calcite (HCl reactn), minor								
				rounded silica pebbles > trace diopside, poss angular								
				particles								
5	6			red & green skarn (talc) with minor veinlets								
				contains calcite particles (v small) & minor								
				magnetism.								
6	7			AA but more reactive (HCl) PVC contamination &								
				non magnetic (talc) conglomerate								
7	12			red & green skarn (talc) with calcite, some rounded pebbles of this								
				slightly harder than above. some calcite with green staining								
				Talc dolomite?) diopside?								
12	13			dominantly dark green granular rock with similar hardness								
				to skarn, also red skarn, calcite + dolomite/diopside?/silica?								
				talc								

From	To	Rock Type	Min/Alter	Description FRC 20	Au	Ag	As	Cu	Pb	Zn	Ni	Cr
13	14			AA with much smaller chips								
14	15			red, green & pale green talc, with calcite & non reactive white rock (fspr?) minor								
[illegible]	[illegible]											
15	17			Large dark green chips, soft talc, moderately magnetic with minor evidence for red green clasts (conglomerate)								
[illegible]	[illegible]											
17	19			dark green silicified? talc, massive, mod-str magnetic very weakly reative.								
[illegible]	[illegible]											
19	21			dark green & red talc with moderate hardness, magnetism is moderate to strong. weak react (HCl)								
[illegible]	[illegible]											
21	26			dark green talc, moderately magnetic, v minor red talc serpentine on surfaces of some chips, calcite throughout strong react fg Dolerite, very weakly magnetic, minor calcite alteration of veins								
[illegible]	[illegible]											
26	28											
28	34		pyrite	mg Dolerite, weakly magnetic, trace pyrite, trace serpentine? minor calcite veining/alteration, hematite? /Fe staining throughout								
[illegible]	[illegible]											
34	38			mg Dolerite, non magnetic, calcite veining/alteration, moderate dark brown staining, trace serpentine								
38	39			dark green dolerite, very weakly magnetic, minor red talc (HC) strong calcite alteration								
39	40		pyrite	dark green dolerite with minor pyrite, carbonate throughout. comprised of chips of DIORITE, v. small intersection ?								
40	51		pyrite	dark green mg grained Dolerite, carbonate veining/alt? throughout, trace pyrite, red talc (HC) 43-44m trace serpentine, trace fspr fragments, lower 5m are weakly magnetic change to diamond at 37m, 37-41m took 3½ hours to drill								
[illegible]	[illegible]											
[illegible]	[illegible]											
[illegible]	[illegible]											

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From	To	Rock Type	Min/Alter	Description FRC 20	Au	Ag	As	Cu	Pb	Zn	Ni	Cr
57.0	Diamond											
57.0	58.7	"		dark green dolerite, medium grained, becoming finer grained down hole towards boundary, larger flag, phenocryst? Xtals down hole. Calcite (minor serp.) veins throughout with reasonably consistant core axis angle. Minor brecciation at 53.40m. Multiple stages of veining exhibited i.e. Xcutting veins. Increased veining/fracturing from 56.90 to 58.50m decreasing grainsize from 57.70 – 58.7m (edge of chilled margin. See Appendix 1								
58.7	63.5			moderate to strongly foliated polymict conglomerate generally dark green with minor dark red clasts took mostly to have been rounded and then foliated Clasts have generally been altered to talc. Matrix is white and appears to be carbonate Possible late stage calcite veining overprinting everything, but this is parallel to the general foliation. weak to moderately magnetic, dark green talc exhibits the strongest magnetism minor pale green clasts (serp?). From 60.70m difficult drilling, fault zone, poor recovery, may have to change back to RC to get through this zone, favourable as we know thickness of Dolerite & the fact that we pass through it. Same rock type but has been fractured strongly, & altered to a red green clay poor recovery from 60.70 to 63.5m								

Appendix 2

[redacted] survey [redacted] / [redacted] / [redacted] 54

From	To	Rock Type	Min/Alter	Description FRC 20	Au	Ag	As	Cu	Pb	Zn	Ni	Cr
[redacted]	75	Return to RC Drilling		also obtained probably contaminated sample from 51 to 63.5. A.A.								
[redacted]	16.6			Pale green carbonate/talc altered dolerite and dark red clay								
[redacted]	16.85											
[redacted]	75			Dark green medium grained dolerite, with minor carbonate throughout								
[redacted]		Return to		Diamond drilling								
75	88.3			Dark green dolerite, medium grained with sections of slightly larger grainsize moderate to hard. Variable magnetism, generally non magnetic, but very weak to weak in places 75-76.8m, 83.5-83.9, 84.4-86.2, mod 86.2-88.1, non to wk 88.1-97.7, wk-mod 97.7-101.8, VW-W 101.8-110.5								
		trace Magnetite in places		Veining moderate, angle to C.A varies from almost parallel to @ 70°. Varied vein types, dominantly calcite & dolomite some veins exhibiting multiple stage crustiform growth sacharoidal texture with minor void sphalerite also exhibited to a minor extent in some veins. minor stockwork Dolerite is generally non foliated. Strong fracturing, close to intense veining from 81.10-81.25								
				87.25-87.85 veins as above but appear to be expanding in trays. Some of the crustiform veins have flat grey crystalline fractured surface								
			swelling clays	decreased veining from 88.3								
				110.5								
				81.1 81.25								

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From	To	Rock Type	Min/Alter	Description FRC20	Au	Ag	As	Cu	Pb	Zn	Ni	Cr
88.3	98.1			Dolerite with carbonate veins, rocks seem to be expanding								
		Appendix 5		around veins, the longer the core is left the								
				more the fractures expand. (swelling clay) → sericite								
				98.1–98.2m pyrite in calcite veins with sericite alteration in wallrock								
				101.9–102.1 Disseminated ~~Arsenopyrite~~? 2–3% visible								
				mineral specks accompanied by carbonate (calcite?) veins								
				at approx 70° LCA								
				108.5–108.7 vuggy coarse granular calcite vein ~~arsenopyrite~~? sericite								
				visible around 2cm into wallrock of vein 50° LCA								
		Appendix 4		113.1 dolomite vein ~~saturate~~ 2cm wide 80° LCA								
				~~arsenopyrite~~ sericite? 3–4% visible in altered dolerite wallrock								
				up to 1cm either side of vein								
108.5	110.7			very weak – weakly magnetic								
110.7	114.35			non – very weakly magnetic								
114.35	118.5	Appendix 5		3 calcite veins in this interval with ~~sap~~ sericite/chlorite alt in the								
				wall rock & ~~Arsenopyrite~~? sericite with veins throughout this interval								
114.35	123			non magnetic								
123	130.5			VW magnetic								
118.5	130.5	Appendix 6		strongly fractured ground, carb veins at varying								
				random angles occasional sericite alteration								
				trace ~~arsenopyrite~~ sericite? throughout								
130.5	142.7			Strongly fractured dolerite, slightly coarser & lighter in								
				colour in places, calcite veining generally accompanies								
				intensely fractured zones, some vuggy calcite veins,								
				trace ~~Arsenopyrite~~ sericite? at varying intervals throughout								
				133.3 possible V. minor chalcopyrite, non-VW weakly magnetic.								

med yellow minor any

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From	To	Rock Type	Min/Alter	Description FRC 20	Au	Ag	As	Cu	Pb	Zn	Ni	Cr
142.7	145.7			Strongly fractured and altered dolerite, slightly lighter in color than above dolerite, almost altered to clay in some places strong carb veining, intense fracturing may indicate fault zone, non magnetic, lower ~~Arsenic~~ sericite content than above.								
	NR		suspected arsenopyrite above v platy, possibly white mica									
	NR		particles are very small									
144.0m		Survey	098/-61									
145.5				Fractured dark green dolerite with minor carb. veins, non-magnetic, Trace mineralisation								
				hole talk caving in								
147.2	150.2			Fractured ground, fairly good recovery, difficult drilling, took approx ~~All day~~ to drill 3.0m, doing a lot of runs (about 25) to recover core (pebbles) hole will need to be cemented if it is to go much deeper								
				~~200m~~.								
				EOH 150.2m								

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FRC 20

From	To	Rock Type	Min/Alter	Description	Au	Ag	As	Cu	Pb	Zn	Ni	Cr
Appendix 1				56.95 Chlorite selvedge veining with later calcite infill veins								
				57.1 bx texture defined by calcite & clay? mineral in veins								
			derived from dolerite	57.5 fine carb & pale green (clay?) veining, groundmass pre/versus?, still chlor. selvedge carb. veining. intensity of alt ↑ down hole to 57.9 ↓ AA (57.9 - 58.2) wisp/clay groundmass, numerous chlorite veins relicts dolerite texture								
Appendix 2				deformed/foliated conglomerate with some ultramafic clasts, minor hem/colored talc. some clasts have rinds of serp & matrix generally green (chl/ves/cpx/garn). trace sulphides pyrite? at 59.57 m. in matrix green serp like mineral. Mag Sus. varies from to with max values in dark colored zones. Calcite veins generally minor & narrow, <0.5mm with some 5mm translucent								
				60.7 - 63.5 zone is green serp material & hematitic talcose material, grey/massive/prog material.								
Appendix 3				91.45 dblue/grey chalcedony vein 7mm wide, cut by later polygen calcite/dolomite veining.								
Appendix 4				97.6 4 in carbonate veining (calc/dol) down hole to 99.8m 108.5 - 108.7 small silica veins also. yellow ufg sericite? minor coarse sericite, outside alteration band minor silica in matrix								

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From	To	Rock Type	Min/Alt	Description	Au	Ag	As	Cu				Cu
Appendix 4												
				4.2 – 113.1 m 50mm silica / carbonate vein zone (numerous) sericite / silica alteration surrounding the vein								
Appendix 5												
				116.5 – 116.6 5mm calc/dolomite / SiO_2 veining surrounded by alt zone 30mm either side sericite / chlorite.								
				117.2 – 117.3 centre is 2×3mm calc/hol. veins surrounded by 20mm sericite / chlorite								
				118.25 – 118.4 multiple stage calcite vein 25mm thick surrounded by 15mm ser/chl alteration.								
Appendix 6												
56.9	59.9	Recovery		3.05 m 102%								
59.9	62.35	Recovery		1.07 m 44%								
62.35	63.50	Recovery.		1.10 m 96%								

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