

DIAMOND DRILL RECORD

HOLE NUMBER : SD15

LOGGED BY : P.R.

041

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM	% Sn.											
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu	% Al	% S	% Pb	% Zn	% Bi	g/t Ag	% WO ₃
0.0	19.0	18.4	97	SANDSTONE White to pale grey-brown, fine grained. Alternates between thinly bedded, micaceous (muscovite) tourmalinized sandstone comprising tourmaline-rich and quartz-rich beds and buff to white, slightly coarser grained, massive sandstone with little mica. Minor bands of grey, green-grey chloritic material enclosing rounded sandstone grains(?) which sometimes elongated parallel to bedding. BCA averages 30°, local contortion - microfold spacing 1cm, locally with axial plane cleavage developed. Broken along joints, either smooth and coated with tourmaline, or coated with finely crystalline quartz, or coated with clay (badly broken).													
19.0	68.8	49.4	99	SANDSTONE AND QUARTZITE Similar to above but includes quartzite and is largely massive variety with thinly bedded, tourmalinized interbeds restricted to 19-43m. Minor brown tourmaline on joints and in vugs, particularly 40.5 - 41.6m, where vugs thinly rimmed by quartz (< 0.5mm thick) in pale pinkish brown dravitized(?) beds. Very minor pyrite in veinlets and with tourmaline on joints. Few quartz veinlets. BCA varies: 19-37m 40° average, 37-46m ~10° average (minor wispy axial plane cleavage filled with mica and chlorite? in microfolds), 46-51m 45-50°, 51-68.8m ~30° average. Broken along joints but more solid cf above. 52.5 - 59.3 Includes few veins of quartz + pyrite, 5-20cm thick, thicker veins enclosed in soft yellow-brown alteration. YCA 60-85°. 59.3 - 63.8 Very badly broken, veined by brown-black tourmaline, dark grey-green chlorite; and quartz-tourmaline veins near parallel to c.a. and with minor pyrite. 0.4m core loss in soft clayey zones. 63.8 - 68.8 Altered quartzite. Above 66.0m partly tourmalinized with numerous small quartz veins, below 66.0m includes patchy soft yellow-brown alteration which partially washed out during drilling(?) to give vuggy appearance. Minor veinlet and disseminated pyrite. Thin section 41.5m.													
68.8	70.4	1.6	100	SILTSTONE TO FINE GRAINED SANDSTONE Pinkish brown and pale grey, bedded, where pinkish dravitized(?).		68.8	70.4	<0.01	<0.01	0.01	<0.1	0.6	<0.01	<0.01	<0.001	<1	0.02

042

DIAMOND DRILL RECORD

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KWPS

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM	% Sn.											
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO ₃
				Minor veinlet quartz & tourmaline. Several veins of silicified microgranite(?) 1cm thick. Very minor pyrite on joint planes and in veinlets. BCA 35-40°. Breaks along bedding and joints.													
70.4	75.2	2.6	54	WEATHERED CALC-SILICATE(?) Pinkish brown and pale yellow-brown, very soft and clayey, bedded, brown colouration from fine grained biotite. Abundant veinlet and disseminated pyrite, latter generally as small (<0.5mm) euhedra. BCA 30-35°. Broken along pyritic or green clayey joints. 2.2m core loss.		70.4	71.0	<0.01	<0.01	0.03	<0.1	0.5	<0.01	<0.01	0.001	<1	0.02
							72.0	<0.01	0.01	0.04	<0.1	2.2	<0.01	<0.01	0.002	<1	0.01
							73.0	<0.01	<0.01	0.04	<0.1	2.5	<0.01	<0.01	0.002	<1	0.01
							74.0	<0.01	<0.01	0.04	<0.1	2.3	<0.01	<0.01	0.002	<1	0.01
							75.0	<0.01	<0.01	0.05	<0.1	2.8	<0.01	<0.01	0.002	<1	0.01
75.2	84.3	9.1	100	ALTERED HORNFELSED SILTSTONE Green-grey, pinkish brown, mauve, laminated, pinkish brown colour from very fine grained biotite. Coarser grained disseminated biotite in minor calc-silicate interbeds. Minor disseminated and veinlet pyrite throughout. Few quartz veinlets. BCA 30-40°. Broken along joints, rarely parallel bedding. 80.5 - 81.2 Calc-silicate comprising bands and swirls of massive biotite, white tremolite(?) and yellow clayey material. Pyritic 80.6 - 80.8m. Minor black serpentine veins. Non-calcareous. Thin section 78.2m.													
84.3	91.3	7.0	100	CALC-SILICATE MINOR ALTERED HORNFELSES Calc-silicate pale grey, yellow, brown, comprising abundant (locally massive) red-brown biotite, soft yellow clayey material, translucent white wollastonite(?), and rare patches dark green serpentine or chlorite. Minor disseminated sulphides - mostly pyrite, some pyrrhotite. Biotite and pyrite concentrations often in soft, clayey material. Soft and yellowish 84.3 - 86.9m. 89.6 - 91.1 Siliceous, consisting of mauve altered hornfels pervasively veined by quartz and calc-silicate minerals. Thin section 86.7m.		84.3	85.0	<0.01	0.01	0.03	<0.1	1.4	<0.01	<0.01	0.002	<1	0.01
							86.0	<0.01	<0.01	0.03	<0.1	1.4	<0.01	<0.01	0.004	1	0.02
							87.0	<0.01	<0.01	0.03	<0.1	1.5	<0.01	<0.01	0.005	1	0.01
							88.0	<0.01	0.01	0.05	<0.1	4.5	<0.01	<0.01	0.005	1	0.01
							89.0	<0.01	<0.01	0.03	<0.1	2.2	<0.01	<0.01	0.004	<1	0.01
							90.0	<0.01	<0.01	0.04	<0.1	4.7	<0.01	<0.01	0.004	<1	0.01
							91.0	<0.01	<0.01	0.02	<0.1	1.4	<0.01	<0.01	0.002	<1	0.01
91.3	93.5	2.2	100	QUARTZITE White, hard, faintly bedded. Minor disseminated biotite. Veined by pale greenish yellow calc-silicate minerals. Minor chlorite veinlets. BCA 25-30°, broken along joints. Thin section 92.4m.		91.3	92.0	<0.01	<0.01	0.02	<0.1	1.1	<0.01	<0.01	0.002	<1	0.01
							92.0	<0.01	<0.01	0.02	<0.1	0.9	<0.01	<0.01	0.002	1	0.01
							93.0	<0.01	<0.01	0.02	<0.1	0.1	<0.01	<0.01	0.002	<1	<0.01

042

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DIAMOND DRILL RECORD

HOLE NUMBER : SD15

LOGGED BY : P.R.

WAFI

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM	% Sn											
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL	% Cu	% As	% S	% Pb	% Zn	% Bi	g/t Ag	% WO ₃
93.5	98.8	5.3	100	ALTERED QUARTZITE Mauve, mauve-grey, crudely banded (bedding?). Colour derived from very fine grained biotite (locally coarser grained). Numerous irregular or lensoid quartz and/or silicified microgranite(?) veins ± brown tourmaline, 1mm to >1cm thick.. Minor pyrite in veinlets and with quartz, rarely disseminated. Rare dark green vesuvianite(?) in biotite-rich bands. BCA 40-50°.		94.0	95.0	48.01	<0.01	0.02	<0.1	0.4	<0.01	<0.01	0.002	1	0.01
						96.0	"	"	"	"	0.4	"	"	0.002	<1	0.01	
						97.0	"	"	0.02	"	0.6	"	"	"	"	"	
						98.0	"	"	0.02	"	0.4	"	"	0.004	"	"	
						99.0	"	0.01	"	"	0.7	"	"	0.002	"	0.01	
98.8	103.4	4.6	100	MASSIVE BIOTITE Brown, very soft, crudely banded (bedding?). Minor minerals : white and yellow clay (weathered calc-silicates?) and pyrite. Biotite grainsize <0.5mm, colour varies red-brown to black. Becoming harder, transitional to lithology below, with quartz veinlets, lower 1.9m. BCA averages 45°. Broken along joints coated with clay and serpentines. Thin section 101.2m.		99.0	100.0	<0.01	<0.01	0.02	<0.1	2.4	<0.01	<0.01	0.002	1	0.01
						100.0	"	"	"	"	1.8	"	"	"	1	0.02	
						102.0	"	"	0.07	"	5.2	"	"	"	1	"	
						103.0	"	0.01	0.02	"	1.6	"	"	0.004	<1	0.02	
103.4	108.4	5.0	100	HORNFELS Very pale grey-brown to white, hard, faintly laminated, bornfelsed siltstones. Minor alteration - dark green-grey and pyritic in mottled patches. Brown colouration 103.6 - 104.1m due to very fine grained biotite(?) BCA 0-20°. Broken along joints coated with fine grained brown tourmaline or dark green chlorite(?). 107.9 - 108.0 Siliceous, aphanitic granitic(?) vein with 1cm microgranite on upper contact. Contacts 50-65° to c.a. thinly coated with serpentines.		103.0	104.0	<0.01	<0.01	0.04	<0.1	0.2	<0.01	<0.01	0.002	<1	0.01
						105.0	"	"	0.02	"	0.2	"	"	0.002	"	"	
						106.0	"	"	0.02	"	0.1	"	"	"	"	"	
						107.0	"	"	0.05	"	1.3	"	"	0.001	"	"	
						108.0	"	0.01	0.02	"	0.2	"	"	0.002	"	0.02	
108.4	111.0	2.6	100	ALTERED SANDSTONE Pale yellow-brown, fine grained, soft, bedded. Comprising quartz and pale yellow tremolite(?). Very minor pyrite in mottled alteration zones. Very fine grained disseminated biotite lower 30cm, clayey bottom 10cm. BCA 5-30°, averaging 25°. Badly broken throughout but softer and more broken towards bottom.		108.0	109.0	<0.01	<0.01	0.02	<0.1	0.1	<0.01	<0.01	0.014	<1	0.01
						110.0	"	"	0.04	"	0.4	"	"	0.001	2	"	
						111.0	"	"	0.02	"	1.0	"	"	0.002	"	"	
111.0	172.4	61.4	100	BIOTITE GRANITE White, yellowish white, greyish white, fine to medium grained, comprising quartz, feldspar and 2-5% biotite (locally up to 15%). Plagioclase commonly pale yellow and weakly argillized. Biotite plates generally exposed on edge in core. Minor micropegmatite in irregular masses <20cm. long, consisting of coarse crystals of quartz and feldspar, minor tourmaline ± very minor fluorite, pyrite													

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DIAMOND DRILL RECORD

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NWPS

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM	% Sn.										
FROM	TO	m	%			FROM	TO	TOTAL	ACIDSDL	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag
				and muscovite; tabular feldspar crystals up to 2cm thick. Minor black tourmaline in clots or nodules of quartz-tourmaline >1cm diameter; one very large nodule(?) with minor pyrite 124.45-124.75m. Minor (7% of intersection) greisenized granite mostly in 10-20cm thick zones (up to 60cm), consisting of quartz, muscovite, minor sericite ± tourmaline and pyrite, rarely with fluorite and arsenopyrite, commonly enclosed in an argillized granite envelope, contact angles 40-60° to c.a. Argillized and very soft at 129.3m and 137.8 - 137.9m. Biotite enrichment lower 90cm. Broken along few joints.												
				170.5 - 170.8 Irregular, porphyritic aplite dyke, consisting of rounded quartz and feldspar phenocrysts in a very fine grained matrix, trace muscovite and pyrite. Partly sericitized.												
				Thin sections 115.1, 121.9m.												
				Gradational change to:												
172.4	174.4	2.0	100	PORPHYRITIC GRANITE Phenocrysts largely white and yellow (argillized) rounded feldspars, lesser quartz, set in a grey groundmass. Minor biotite. Some feldspars with yellow, argillized rims, possibly reflecting late plagioclase rimming K-feldspar(?). Thin section 174.4m. Sharp contact 10-15° to c.a. No chill zone.												
174.4	240.7	66.3	100	GRANITE Coarse to medium grained, comprising white or pale yellow (weakly argillized) feldspars, grey quartz, minor (~2%) black biotite. Minor (~10% of intersection) greisenized granite mostly in zones <15cm thick (thicker zones described below), consisting of quartz, muscovite ± sericite, tourmaline, pyrite, some with thin central veins of pyrite ± quartz ± tourmaline ± arsenopyrite and veinlet clay; vein and contact angles 30-50° to c.a. Below 185m, few thin tourmaline veins (mostly <1cm thick) in two sets (VCA's 65°, 40°, average) and rare tourmaline-quartz nodules. In places very many tiny white cracks through granite but core generally competent, only broken along infrequent joints.												

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HWPS

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FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO ₃
	177.1 - 178.8			Fine grained granite, weakly quartz-feldspar porphyritic, plagioclases partly altered to sericite-clay, very minor biotite. Few fine grained quartz-tourmaline nodules 1.5-2.5cm diameter. At 177.4 - 177.5m quartz-tourmaline vein (VCA 65°) within greisen selvage. Gradational contacts.													
	194.5 - 198.8			Fine grained granite, similar to above but feldspars pale yellow (weakly argillized). Few black tourmaline-quartz and siliceous greisen veinlets, and tourmaline-quartz nodules. Gradational contacts.													
	199.5 - 201.7			~60% of intersection is grey greisen comprising quartz muscovite, minor black tourmaline and sericite. One thin (3mm) vein of arsenopyrite - quartz - pyrite at 200.4m, VCA 45°.		199.5	200.5	0.01	0.01	0.03	0.01	0.1	0.01	0.01	0.001	0.01	
							201.7	0.03	"	0.06	0.2	1.0	"	"	0.016	"	
	213.5 - 213.7			Grey greisen with clay veinlets, trace arsenopyrite. VCA 50°.													
	215.7 - 215.9			Grey greisen with veinlets of clay, tourmaline - quartz and arsenopyrite - pyrite - quartz, VCA 40-45°.													
	216.5 - 220.9			Porphyritic granite - rounded quartz and feldspar phenocrysts in fine grained groundmass. Similar to 194.5 - 198.8m. Includes greisen vein 219.2 - 219.3m, VCA 50°. Gradational contacts.													
	222.1 - 225.7			~20% of intersection is grey greisen including few thin veins (2-8mm) of arsenopyrite - pyrite - quartz, VCA 45-50°.		222.5	229.5	0.01	0.01	0.04	0.1	1.1	0.01	0.01	0.013	0.1	
							230.5	"	"	0.07	0.1	1.3	"	"	0.004	"	
	228.7 - 240.7			~30% of intersection is green-grey greisen, including veins of quartz-tourmaline and, rarely, thin veins (2-5mm) of pyrite - quartz ± arsenopyrite ± chalcopyrite(?). Broken along slickensided clayey surfaces within 20cm of contact.		228.5		"	"	0.04	0.1	0.1	"	"	0.002	0.1	
							233.5	"	"	"	"	0.8	"	"	0.004	0.01	
							233.5	"	"	"	"	0.3	"	"	"	0.02	
							234.5	"	"	0.02	"	0.3	"	"	0.004	"	
							236.5	"	"	0.04	"	"	"	"	0.004	0.10	
							236.5	0.02	"	0.05	0.1	1.3	"	"	0.007	0.03	
				Thin sections 182.7, 200.4, 239.5m.			237.5	0.01	"	0.03	0.1	0.4	"	"	0.006	"	
							238.5	"	0.02	0.04	"	0.5	"	"	0.005	"	
				Very soft and clayey, 30cm. core loss at contact - Fault(?)			239.5	"	0.01	0.03	"	0.1	"	"	0.002	"	
							240.5	"	0.01	0.04	"	0.4	"	"	0.004	0.01	

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DIAMOND DRILL RECORD

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INTERVAL (m)		RECOVERY		DESCRIPTION	FORM.	% Sn											
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO ₃
240.7	249.4	8.2	94	QUARTZITE LESSER HORNFELS		240.5	241.5	0.01	0.01	0.04	50.1	0.7	<0.01	<0.01	0.004	1	0.02
				Grey and brown, hard, finely laminated. Quartzite grey, finely micaceous (muscovite), derived from fine grained sandstone.			242.5	<0.01	<0.01	0.05	"	0.0	"	"	0.003	1	0.01
				Hornfels grey with brown interbeds (tourmaline-rich?), derived from siltstone. Minor red-brown biotite particularly associated with aplitic veins. Numerous silicified (or topazified?) aplitic veins			243.5	0.02	0.01	"	"	2.2	"	"	"	<1	"
				† tourmaline † biotite, rarely fluorite, pyrite, 5mm - 2cm thick, widely variable VCA's. Minor sulphides in thin (< 1cm) veins -			244.5	<0.01	"	0.04	"	0.5	"	"	0.004	1	"
				mostly pyrite with quartz, lesser pyrrhotite and arsenopyrite, rare sphalerite and chalcopyrite. One thicker quartz vein 247.7 - 247.9m, VCA 25°.			246.5	"	<0.01	"	0.1	0.5	"	"	0.002	<1	"
				Few fibrous brown tourmaline veinlets (< 0.5mm), VCA 40-50°. Increasing intensity of calc-silicate alteration and higher sulphide content in lower 1.1m - highly micaceous (muscovite and biotite), irregular talc-filled vugs 248.3 - 248.4m, minor			247.5	"	"	"	<0.1	0.6	"	"	"	1	"
				serpentine veining. BCA averages 35°. Broken along joints and infrequently parallel bedding. Rare small scheelite specks 249.0m, possible scheelite grains (2-3mm diameter) within brown tourmaline vein, yellow fluorescence under short wave only.			248.5	"	"	0.09	0.1	0.9	"	0.01	0.007	1	0.02
				Thin section 247.5m.						0.08	50.1	2.7	"	<0.01	0.006	1	0.01
249.4	255.6	5.6	90	MINERALIZED SERPENTINE MINOR CALC-SILICATE		249.0	250.0	<0.01	0.02	0.04	0.01	2.9	<0.01	0.02	0.004	2	0.01
				Serpentine varies from dark green through to black, talcose, generally bedded, very soft and clayey in short sections (< 10cm)			251.0	0.04	"	"	"	3.6	"	"	0.003	1	"
				- badly broken, minor core losses. Calc-silicate white, grey, pale green, bedded, partly biotite-rich. Mineralization - pyrrhotite and pyrite			252.0	0.05	"	0.07	"	4.2	"	"	0.006	1	0.02
				in veinlets and disseminated (< 5% sulphide overall, up to 25%), minor magnetite (content increasing downwards). BCA 40-50°.			253.0	0.62	0.12	0.03	"	1.3	"	"	0.006	1	0.09
							254.0	0.04	0.02	0.05	"	0.9	"	"	0.007	1	0.01
							255.0	"	0.05	0.02	"	1.2	"	0.06	0.072	2	0.02
							256.0	0.20	0.10	0.03	"	0.6	"	0.04	0.073	1	0.03
							257.0	0.25	0.12	0.01	"	0.2	"	0.02	0.005	2	0.05
				Thin section 251.2m.			258.0	0.44	0.10	0.03	"	0.5	"	"	0.008	2	0.06
							259.0	0.34	0.07	0.05	"	0.9	"	"	0.014	2	0.05
				Gradational transition to:			260.0	0.69	0.30	0.01	"	0.1	"	"	0.004	2	0.11
							261.0	0.46	0.13	0.05	"	0.9	"	"	0.150	2	0.05
255.6	307.4	50.2	97	MAGNETITE SKARN		262.0	0.99	0.40	0.02	"	0.1	"	"	0.004	2	0.11	
				Largely magnetite and serpentine, minor calc-silicates(?), partly bedded, non-calcareous. Magnetite black or dark grey. Black magnetite			263.0	0.10	0.03	0.08	"	4.1	"	"	0.016	2	0.01
				commonly finely acicular and associated with soft, white talcose			264.0	0.68	0.15	0.11	0.06	1.8	"	"	0.011	2	0.06
				tremolite(?); grey magnetite generally finer grained, either massive			265.0	0.21	0.14	0.01	0.01	0.3	"	0.03	0.004	2	0.01
				or in veinlet and disseminated from within serpentine. Serpentine			266.0	0.62	0.33	0.02	"	0.8	"	"	"	3	0.11
				varies apple green through to black. Sulphide content < 5% overall			267.0	1.09	0.35	<0.01	"	0.5	"	0.06	0.003	2	0.10
				but patchy - > 25% in places, largely pyrrhotite in veins and beds			268.0	0.77	0.09	"	"	0.7	"	0.01	"	2	0.06
				< 1cm thick (VCA 0-30°) and less commonly disseminated, minor			269.0	0.62	0.05	"	0.66	3.1	"	0.03	0.013	4	0.07
				arsenopyrite with pyrrhotite, very minor pyrite. Few veins of green			270.0	0.23	0.13	"	<0.01	0.3	"	0.01	0.011	2	0.02
							271.0	<0.01	0.02	"	"	1.4	"	"	0.007	1	0.01

040

50 047

DIAMOND DRILL RECORD

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INTERVAL (m)	RECOVERY		DESCRIPTION	FORM	% Sn											
	FROM	TO			m	%	FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.
			mica, often associated with pyrrhotite veins as a selvage 1mm-3cm thick. Rare thin (1-4mm) chrysotile and talc veins (badly broken along latter), variable VCA's. Pale blue, fine grained vivianite(?) staining some joints. Rare quartz veinlets. BCA 30-50° (where visible), 40° average. Broken and, in places, badly broken on slickensided joints, scanning with UV showed scheelite 271.1 - 271.4m (few specks), 298.4m (small patches with pyrrhotite and sphalerite) mineral with short wave only, blue fluorescence weaker than scheelite at 300.1m.		271.0	272.0	0.51	0.11	0.01	0.01	0.7	0.01	0.02	0.013	2	0.07
						273.0	1.35	0.16	"	0.04	0.9	"	"	0.011	3	0.08
						274.0	0.47	0.08	"	0.01	1.1	"	"	0.015	2	0.06
						275.0	0.28	0.04	0.26	0.1	0.9	"	0.11	0.005	2	0.10
						276.0	0.22	0.02	0.05	"	2.8	"	0.02	0.022	2	0.06
						277.0	0.81	0.03	0.08	0.1	2.8	"	"	0.009	3	0.06
						278.0	0.18	"	0.37	0.1	2.9	"	0.06	0.016	3	0.04
						279.0	0.22	0.05	0.04	0.1	3.9	"	0.03	0.012	3	0.09
						280.0	0.08	0.04	0.05	"	1.4	"	0.62	0.007	3	0.05
						281.0	0.49	0.02	0.28	"	2.7	"	1.19	0.008	4	0.08
						282.0	1.00	0.03	0.32	0.3	2.4	"	0.02	0.017	3	0.06
						283.0	0.43	0.02	0.08	0.1	2.0	"	"	0.028	2	0.05
						284.0	0.19	0.03	0.06	"	1.3	"	0.03	0.010	1	0.04
						285.0	0.27	0.16	0.05	0.4	0.8	"	0.03	0.007	2	0.07
						286.0	0.22	0.07	0.03	0.1	0.4	"	0.01	0.004	2	0.02
						287.0	0.28	0.22	0.04	"	0.5	"	0.02	0.004	3	0.04
						288.0	0.28	0.26	0.09	0.1	0.6	0.01	0.02	0.004	3	0.04
						289.0	1.11	0.29	0.09	0.2	3.3	"	0.02	0.010	3	0.08
						290.0	0.35	0.10	0.02	0.1	0.2	"	0.03	0.005	2	0.01
						291.0	0.31	0.25	0.03	0.3	0.4	"	0.02	0.004	2	0.02
						292.0	0.39	0.34	0.07	0.1	1.2	"	0.01	0.011	3	0.06
						293.0	0.07	0.05	0.02	0.1	0.2	"	0.02	0.004	1	0.01
						294.0	0.10	0.07	0.03	0.1	0.2	"	0.01	0.004	2	0.01
						295.0	0.29	0.19	0.07	0.05	0.1	0.02	0.01	0.007	1	0.06
						296.0	0.09	0.04	0.05	0.1	0.5	0.01	0.02	0.004	2	0.02
						297.0	0.16	"	0.07	"	2.0	"	0.04	0.006	3	0.09
						298.0	0.02	0.02	0.11	"	4.4	"	0.03	0.027	3	0.14
						299.0	0.04	0.02	0.05	"	2.0	"	0.02	0.010	2	0.06
						300.0	0.04	0.02	0.17	0.03	2.7	0.02	0.01	0.023	2	0.12
						301.0	0.61	0.05	0.19	0.59	5.6	"	0.01	0.015	3	0.09
						302.0	0.17	0.04	0.14	0.30	3.5	0.01	"	0.021	2	0.10
						303.0	0.96	0.70	0.08	0.01	0.7	0.02	0.01	0.008	1	0.14
						304.0	3.32	2.6	0.07	0.2	1.2	0.02	0.02	0.007	3	0.11
						305.0	0.85	0.40	0.36	0.86	2.2	0.02	0.12	0.015	3	0.18
						306.0	0.70	0.66	0.30	1.40	2.0	"	2.21	0.015	3	"
						307.0	0.08	0.05	0.05	0.01	0.1	0.01	0.01	0.004	1	0.07
						308.0	0.04	0.01	0.08	"	0.2	"	0.15	0.004	3	0.06
						309.0	0.01	0.01	0.05	0.01	0.3	0.01	0.17	0.012	1	0.01
						310.0	"	0.01	0.02	"	0.4	"	0.01	0.014	"	"
						311.0	"	"	0.02	"	0.3	"	"	0.009	"	"
						312.0	"	"	"	"	0.6	"	"	0.012	"	"
						313.0	"	"	0.04	"	0.3	"	"	0.009	"	"
						314.0	"	"	0.03	"	0.1	"	"	0.010	"	"
307.4	317.0	9.4	98	CARBONATE AND TALC-RICH ROCK		308.0	0.04	0.01	0.08	"	0.2	"	0.15	0.004	3	0.06
				Carbonate grey, crystalline, unbedded or crudely banded, largely calcite, minor magnetite (content decreasing downwards), includes small patches or green serpentinous carbonate, few stylolites.		309.0	0.01	0.01	0.05	0.01	0.3	0.01	0.17	0.012	1	0.01
				Talc-rich rock, lesser, grey, unbedded or faintly laminated, minor green serpentine veins, grey micaceous patches. BCA 30-35°. Few breaks along joints.		310.0	"	0.01	0.02	"	0.4	"	0.01	0.014	"	"
						311.0	"	"	0.02	"	0.3	"	"	0.009	"	"
						312.0	"	"	"	"	0.6	"	"	0.012	"	"
						313.0	"	"	0.04	"	0.3	"	"	0.009	"	"
						314.0	"	"	0.03	"	0.1	"	"	0.010	"	"

047

60 048

DIAMOND DRILL RECORD

HOLE NUMBER : SD15

LOGGED BY : P.R.

048

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM	% Sn.											
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL	% Cu.	% As	% S.	% Pb	% Zn	% Bi.	g/r Ag	% WO ₃
	307.4 - 308.1			Siliceous, minor magnetite,		314.0	315.0	<0.01	<0.01	0.02	<0.1	0.1	<0.01	<0.01	0.006	<1	<0.01
	313.0 - 313.1			White to pale green, siliceous, veined by green-black serpentine.		316.0	"	"	"	0.02	"	<0.1	"	"	0.004	"	"
	315.5 - 315.8			10cm recovery (20cm loss). Very pale green, soft vuggy carbonate. Green effervescence with acid, stains rock yellow.		317.0	"	0.01	0.02	"	"	"	"	"	0.005	"	"
	315.8 - 317.0			Grey, siliceous carbonate, veined by pale grey-green, pale brown serpentine and minor quartz. Serpentine predominates 316.4 - 317.0m. Partly brecciated textures developed by veining.													
				Thin section 310.4m.													
317.0	326.2	9.2	100	QUARTZ		317.0	318.0	<0.01	0.01	0.02	<0.1	<0.1	<0.01	<0.01	0.004	<1	<0.01
				White, pale grey, pale green, massive. Crossed by a fine network of chalcedony(?) and pale green serpentine veinlets. Broken along infrequent clay - or serpentine - coated joints (JCA 45-60°), some slickensided, or in thicker, soft clayey zones.		319.0	"	<0.01	0.01	"	"	"	"	"	0.004	"	"
						320.0	"	0.01	"	"	"	"	"	"	0.002	"	"
						321.0	"	<0.01	"	"	"	"	"	"	"	"	"
						322.0	0.04	"	0.05	"	2.0	"	0.01	"	"	"	0.01
						323.0	<0.01	"	0.02	"	<0.1	"	<0.01	0.002	"	<0.01	
	325.9 - 326.0			Very soft, cream-coloured, clayey material.		324.0	"	"	"	"	"	"	"	0.001	"	"	
						325.0	"	"	"	"	"	"	"	0.002	"	"	
				Thin section 310.4m.		326.0	"	"	"	"	"	"	"	0.002	"	"	
326.2	332.4	6.2	100	CARBONATE		326.0	327.0	<0.01	<0.01	0.04	<0.1	0.1	<0.01	<0.01	0.013	<1	<0.01
				Grey and white, crudely banded or faintly bedded in places, largely calcite. Minor veining by pale green serpentine, veinlet calcite and black Mg-silicates(?) - latter also in rare flecks. Very minor disseminated pyrrhotite 327.0 - 327.8m. Few veinlets of hard grey-green, botryoidal mineral 330.9 - 331.2. BCA 30-45°.		328.0	"	"	0.02	"	0.2	"	"	"	0.015	"	"
						329.0	"	"	0.05	"	0.1	"	"	0.010	"	"	
						330.0	"	0.01	0.02	"	<0.1	"	"	"	"	"	
						331.0	"	<0.01	0.02	"	"	"	"	"	"	"	
						332.0	"	0.02	"	"	0.4	"	"	0.04	"	"	
				Thin section 326.4m.													
332.4	334.2	1.8	100	SILICEOUS APLITE		332.0	333.0	<0.01	<0.01	0.02	<0.1	<0.1	<0.01	<0.01	0.007	<1	0.01
				Pale grey, hard. Mostly very fine grained but coarser, graphic texture at contacts in thin zones (5mm upper, 10mm lower). Numerous grey-green serpentine veinlets. Contacts slightly irregular 20-30° to c.a.		334.0	"	"	"	"	"	"	"	"	0.003	"	"
				Thin section 334.2m.													

00 049

DIAMOND DRILL RECORD

HOLE NUMBER : SD15

LOGGED BY : P.R.

HWPE

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM.	% Sn.													
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL.	% Cu.	% As.	% S.	% Pb.	% Zn.	% Bi.	g/t Ag	% WO ₃		
				- mainly pyrite, with pyrrhotite and sphalerite lower 10cm. Lower contact parallel bedding, BCA 30°.															
347.8	383.7	33.4	93	HORNFELSED SHALE		347.0	349.0	<0.01	<0.01	0.04	<0.1	2.3	<0.01	0.12	0.003	<1	<0.01		
				Dark grey, faintly bedded, becoming harder downwards. Pyritic throughout; pyrite as blebs (often elongated parallel bedding) 0.5 - 5mm diameter, as veinlets and in thin (mostly <2mm thick) veins of quartz, pyrite ± biotite. Partly graphitic. Includes few calcareous zones rich in pale grey cordierite (larger crystals have hexagonal outlines), with possible andalusite. Weakly calcareous down to 350.2m and non-calcareous - apart from the cordierite zones - below that point. BCA 30-45° (35° average). Broken along infrequent joints which are mostly rough and pyritic, rarely graphitic slickensided and smooth. Badly broken 360.3 - 360.9m (20cm loss), 365.1 - 365.7m (40cm loss), 380.0 - 381.0 (-80cm loss), 381.5 - 382.4m (-70cm loss) and 382.7 - 383.3m (40cm loss).			350.0	"	"	"	"	2.3	"	0.02	"	"	"	"	0.01
						351.0	"	"	0.05	"	2.3	"	0.05	"	"	"	"	"	
						352.0	"	"	0.04	"	1.4	"	0.02	0.004	"	"	"	"	
						353.0	"	"	0.03	"	1.9	"	<0.01	0.003	"	"	"	"	
						354.0	"	"	0.04	"	2.1	"	0.02	0.009	"	"	"	"	
						355.0	"	"	"	"	2.1	"	0.05	0.002	"	"	"	"	
						356.0	"	"	"	"	2.1	"	0.05	"	"	"	"	"	
						357.0	"	"	0.05	"	2.8	"	0.02	0.004	1	"	"	"	
						358.0	"	"	0.04	"	2.3	"	0.04	"	1	"	"	"	
						359.0	"	0.01	"	"	2.4	"	0.01	"	1	"	"	"	
						360.0	"	<0.01	0.05	"	2.5	"	0.02	"	<1	<0.01	"	"	
						361.0	"	"	"	"	2.0	"	0.02	0.003	1	"	"	"	
						362.0	"	0.01	0.04	"	2.3	"	0.06	0.004	1	"	"	"	
				347.8 - 348.0 With abundant (~5%) red-brown sphalerite in irregular blebs 41cm diameter.		363.0	"	<0.01	0.06	"	2.7	"	<0.01	0.002	1	0.01	"	"	
						364.0	"	"	0.04	"	2.0	"	0.10	0.004	1	<0.01	"	"	
						365.0	"	"	0.05	"	2.8	"	0.12	0.002	<1	"	"	"	
				349.9 - 350.2 Cut by veinlets of fine bladed calcite crystals. 10cm zone micaceous calc-silicate 350.0 - 350.1m.		366.0	"	"	"	"	2.4	"	0.09	0.004	1	0.01	"	"	
						367.0	"	"	"	"	2.1	"	0.01	0.002	1	"	"	"	
						368.0	"	0.01	"	"	2.1	"	<0.01	"	<1	"	"	"	
				353.0 - 353.1 Silicified granitic(?) vein, including angular transported hornfels fragments (fragment size up to core width). VCA 20-25°.		369.0	"	<0.01	0.05	"	1.9	"	"	"	"	<0.01	"	"	
						370.0	"	"	0.06	"	2.0	"	"	"	"	"	"	"	
						371.0	0.01	"	"	"	1.0	"	0.17	0.002	3	"	"	"	
						372.0	0.02	0.01	0.06	"	1.3	"	0.04	0.006	<1	"	"	"	
				359.7 - 359.8 With minor disseminated sphalerite.		373.0	0.02	<0.01	0.03	"	1.4	"	0.07	0.002	1	"	"	"	
						374.0	<0.01	"	"	"	2.1	"	<0.01	0.005	<1	"	"	"	
				370.2 - 371.6 Calc-silicate, pale green-grey with pink patches, hard bedded, weakly calcareous.		375.0	"	"	0.03	"	2.2	"	0.02	0.004	"	"	"	"	
						376.0	"	"	0.04	"	2.2	"	"	"	1	"	"	"	
						377.0	"	"	"	"	1.6	"	0.01	0.001	<1	"	"	"	
383.7	389.9	6.2	100	CALC-SILICATE AND CARBONATE		378.0	"	"	0.02	"	<0.1	"	<0.01	0.001	"	"	"	"	
				Calc-silicate, pale grey-green, pale yellow, mottled, partly bedded, calcareous except for top 80cm. Numerous dark grey-green veinlets of chlorite(?) near - parallel bedding. Minor irregular veins calcite and veinlet pyrite. Few zones (interbeds?) dark grey, cordierite-bearing hornfels with minor pyrite. Minor sphalerite abundant at 287.8 - 287.9m and 289.5 - 289.9m. with lesser pyrite, pyrrhotite and arsenopyrite. BCA 20 - 30°. Solid core.		379.0	"	0.01	0.05	"	1.6	"	"	0.006	"	0.01	"	0.01	
						380.0	"	<0.01	0.04	"	2.0	"	"	0.006	1	"	"	"	
						381.0	"	"	0.02	"	2.0	"	"	0.006	<1	<0.01	"	"	
						382.0	"	"	"	"	2.5	"	"	"	"	"	0.01	"	
						383.0	0.01	0.02	"	"	3.3	"	"	0.004	"	"	"	"	
						384.0	0.13	0.02	0.04	"	0.7	"	0.01	0.011	"	"	"	"	
						385.0	0.31	0.20	0.05	"	1.0	"	"	0.019	"	"	"	"	
						386.0	0.07	0.04	0.03	"	<0.1	"	<0.01	0.04	"	<0.01	"	"	
				This section 384.4m.		387.0	0.02	<0.01	0.05	"	0.5	"	0.20	0.009	1	0.01	"	"	
						388.0	0.04	"	0.02	"	"	"	0.04	0.008	1	<0.01	"	"	

050

000 051

DIAMOND DRILL RECORD

HOLE NUMBER : SD15

LOGGED BY : P.R.

NDPS

INTERVAL (m)	RECOVERY		DESCRIPTION	FORM	% Sn.												
	FROM	TO			m	%	FROM	TO	TOTAL	ACID SOL.	% Cu	% As	% S	% Pb	% Zn	% Bi	g/t Ag
389.9	394.2	4.3	100	HORNFEELS-QUARTZITE	389.0	389.0	0.02	<0.01	0.07	<0.1	0.7	<0.01	0.11	0.005	1	<0.01	
				Pale grey or grey-green, bedded, hard and siliceous. Minor, very fine grained disseminated pyrite and rare coarser grained pyrrhotite in blebs 2-3mm wide. BCA 30-35°. Broken along rare flat joints.	390.0	390.0	0.02	"	0.05	"	1.0	0.02	0.02	0.150	4	0.01	
					391.0	391.0	<0.01	"	0.02	"	<0.1	<0.01	0.02	0.000	4.1	"	
					392.0	392.0	"	"	"	"	0.2	"	0.02	"	"	"	
					393.0	393.0	"	"	0.05	"	1.1	"	0.01	0.002	"	<0.01	
					394.0	394.0	"	"	0.02	"	1.2	"	<0.01	0.000	"	"	
				390.6 - 390.9 Altered granitic(?) vein - white quartz phenocrysts(?) set in a grey-green groundmass. Contacts irregular, top ~10° to c.a., bottom ~30° to c.a.													
				392.3 - 393.8 Hornfelsed shale, dark grey, faintly bedded, calcareous, cordierite(?) - rich (pale grey crystals <3mm diameter), minor pyrite in blebs or veinlets.													
394.2	397.4	3.0	94	GRANITE	394.0	395.0	<0.01	<0.01	0.02	<0.1	<0.1	<0.01	<0.01	0.002	1	<0.01	
				Pale grey fine grained, consisting of grey quartz, white or pale green (weakly sericitized) feldspars, minor dark brown biotite, rare tourmaline. Partly silicified. Upper contact 30° to c.a., lower contact not visible. Broken along joints, badly broken (20cm core loss) 396.4 - 397.4m.	396.0	396.0	"	"	0.02	"	"	"	"	0.001	1	0.01	
					397.0	397.0	"	"	0.04	"	"	"	"	0.002	1	"	
					398.0	398.0	<0.01	<0.01	0.04	<0.1	1.1	<0.01	<0.01	0.002	1	0.01	
					399.0	399.0	"	"	"	"	1.0	"	"	"	<1	"	
					400.0	400.0	"	"	"	"	0.3	"	"	"	1	"	
397.4	400.0	2.4	92	BIOTITE-RICH QUARTZITE	401.0	401.0	"	"	0.03	"	<0.1	"	"	"	1	<0.01	
				Grey, hard, laminated, comprising quartz, fine grained, red-brown biotite in thin discontinuous beds, abundant pyrite disseminated and in veinlets. Thin (2mm - 1cm) veins of massive biotite at contacts, BCA 30° average. Badly broken on numerous pyritic joints (20cm core loss).	402.0	402.0	"	"	"	"	"	"	"	0.002	<1	"	
					403.0	403.0	"	"	0.02	"	"	"	"	"	1	"	
					404.0	404.0	"	"	0.03	"	"	"	"	0.001	<1	"	
					405.0	405.0	"	"	0.02	"	"	"	"	"	"	0.01	
					406.0	406.0	"	"	0.02	"	0.1	"	0.04	0.002	"	"	
					407.0	407.0	"	"	"	"	<0.1	"	<0.01	0.001	"	"	
					408.0	408.0	"	"	0.02	"	"	"	"	"	1	"	
					409.0	409.0	"	"	0.02	"	"	"	0.02	<0.001	1	<0.01	
					410.0	410.0	"	"	"	"	"	"	<0.01	0.001	1	0.01	
					411.0	411.0	"	"	"	"	<0.1	"	"	"	1	0.02	
					412.0	412.0	"	"	0.04	"	0.4	0.01	0.01	0.002	1	0.01	
					413.0	413.0	"	"	0.03	"	0.2	0.02	0.02	0.001	1	0.02	
					414.0	414.0	"	"	"	"	0.4	<0.01	0.73	"	1	0.01	
					415.0	415.0	"	"	"	"	<0.1	"	0.01	"	1	0.02	
					416.0	416.0	"	"	"	"	"	"	<0.01	0.002	1	"	
					417.0	417.0	"	"	0.04	"	"	"	"	"	1	0.01	
					418.0	418.0	"	"	"	"	0.3	0.5	0.02	0.01	0.004	5	0.02
					419.0	419.0	"	"	0.05	<0.1	0.6	<0.01	"	0.002	1	"	
					420.0	420.0	"	"	0.02	"	<0.1	"	<0.01	0.002	4.1	0.01	
					421.0	421.0	"	"	0.04	"	"	"	"	0.002	"	"	
					422.0	422.0	"	"	0.02	"	"	"	"	"	"	0.02	
					423.0	423.0	"	"	"	"	0.1	"	"	"	"	"	
				400.0 - 400.5 Enriched in biotite and feldspar, depleted in quartz.													

051

052

DIAMOND DRILL RECORD

HOLE NUMBER : SD15

LOGGED BY : P.B.

HWPE

INTERVAL (m)		RECOVERY		DESCRIPTION	FORM.	% Sn.										
FROM	TO	m	%			FROM	TO	TOTAL	ACID SOL	% Cu	% As	% S	% Pb	% Zn	% Bi	g/t Ag
				400.9 - 401.2 Fine grained, gradational contacts. Upper contact marked by reduction in biotite content downwards, contact angle ~30° to c.a.												
				411.6 - 412.0 Greisen, greenish grey, comprising quartz, muscovite, sericite, minor pyrite, tourmaline. Includes 10cm argillized granite and a 1-2mm vein of tourmaline - arsenopyrite at 411.7m (VCA 70°).												
				412.2 Quartz and coarse brown-black sphalerite vein, 1cm thick, VCA 20°.												
				412.9 Quartz-sphalerite vein as above but 5-8mm thick, VCA 35°.												
				416.2 - 416.4 Quartz-muscovite greisen, central tourmaline vein, 1mm thick.												
				417.1 - 417.6 Quartz-muscovite-sericite-minor pyrite greisen. Includes 10cm argillized granite and several thin arsenopyrite veins ~8mm thick at 417.3m, VCA 70°.												
				418.3 - 418.8 Quartz-muscovite-sericite-minor tourmaline greisen. Includes 1cm quartz vein at 418.7m with central seam of arsenopyrite and chalcopyrite, VCA ~70°. Granite argillized around above greisen zone including intense argillization (very soft) 417.8 - 418.1 and 418.8 - 418.9m.												
				420.9 - 421.7 Green-black chloritic(?) and argillic alteration zone crossing core at 15° to c.a. Broken along smooth slickensided fracture surfaces.												
				422.6 - 422.7 Quartz-muscovite-sericite greisen.												
				Thin sections 401.9, 418.6m.												
				END OF HOLE 422.8m.												

052

60 052

RENISON LIMITED
DIAMOND DRILL HOLE PLOT

SCALE :

HOLE No. :

RENISON LIMITED

HOLE NO. SD15

M. BOLTON

MAGNETIC SUSCEPTIBILITY ($\times 10^{-6}$ C.G.S. units)

DEPTH	MS	DEPTH	MS	DEPTH	MS	DEPTH	MS	DEPTH	MS	DEPTH	MS
0-111	≤100*	-264	65000	-279	54000	-294	100	-309	1600	-333	≤100
111-230	no readings (granite)	-265	9100	-280	38000	-295	11000	-310	5200	-334	500
		-266	52000	-281	41000	-296	43000	-311	3200	-374	≤100*
-252	≤100*	-267	4000	-282	38000	-297	41000	-312	2300	-375	300
-253	10000	-268	91000	-283	100	-298	18000	-313	1100	-376	200
-254	6000	-269	56000	-284	200	-299	64000	-314	1800	-377	300
-255	30000	-270	1400	-285	44000	-300	28000	-315	2400	-378	200
-256	14000	-271	2000	-286	1200	-301	32000	-316	3500	-379	100
-257	26000	-272	52000	-287	18000	-302	76000	-326	≤100*	-380	400
-258	61000	-273	27000	-288	36000	-303	78000	-327	500	-384	≤100*
-259	50000	-274	29000	-289	35000	-304	60000	-328	≤100	-385	300
-260	56000	-275	41000	-290	400	-305	57000	-329	200	-386	≤100
-261	26000	-276	27000	-291	30000	-306	9400	-330	100	-387	500
-262	2300	-277	2700	-292	27000	-307	1600	-331	200	-422	≤100*
-263	33000	-278	2400	-293	3400	-308	10000	-332	600	* Same result for more than 1 metre	

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RENISON LIMITED
DIAMOND DRILL HOLE PLOT

SCALE:

HOLE No.: 5D 15

PETROGRAPHIC DESCRIPTIONS

(C.M.S. REPORT 81/1/41)

SAMPLE NO.	CLASSIFICATION - COMPOSITION	FABRIC	ACCESSORIES	COMMENTS
41.5m (T.S. 35938)	<u>Quartz-Dravite Hornfels.</u> Quartz and dravite in varying proportions with subordinate to minor muscovite.	Fine-grained, hornfelsic, with relict pelitic banding.	Sparse, cloudy fine rutile. Sparse relict detrital zircon, rutile.	Close affinities with SD 14/5.4m, 36.9m, but more distinctly hornfelsed.
78.2m	<u>Tremolite Quartz-Mica Hornfels.</u> Quartz and pale titaniferous phlogopite, subordinate closely intergrown cordierite, disseminated poikiloblastic tremolite, fine pyritised pyrrhotite.	Fine-grained hornfelsic with relict millimetric-scale bedding.	Minor traces ankeritic carbonate, poikilitic dravite.	Hornfelsed siltstone. Tremolite is metasomatic, probably after diagenetic carbonate impregnations. Bedded (recrystallized, syngenetic) sulphide.
86.7m	<u>Retrogressed Hornfels.</u> Sericitised pyrrhotite, kaolinised ?cordierite, subordinate quartz, patchy, pale cummingtonite, pale phlogopite, pyritised pyrrhotite, ankeritic carbonate.	Fine-grained, hornfelsic, with poikilitic amphibole, phlogopite. Minor quartz veining.	Conspicuous, extremely fine, cloudy rutile.	Relict pelitic bedding. Close affinities with 78.2m. Cummingtonite late metasomatic, introduced partly with vein-quartz (-carbonate-pyrite).
92.4m	<u>Metaquartzite.</u> Anhedral/weakly interlocking quartz with relatively minor included intergranular kaolinitic alkali feldspar. Patchy tremolite aggregates and chloritised phlogopite.	Quartzitic, medium-grained, faint relict deformed banding.	Traces sideritic carbonate, sphene, dravite. Sparse relict detrital zircon, rutile.	Thoroughly silicified, hornfelsed feldspathic psammite with patchy metasomatic tremolite, phlogopite, sim. 78.2m, 86.7m.
101.2m (T.S. 35942)	<u>Phlogopite-Tremolite Rock.</u> Pale green phlogopite with patchy, corroded aggregates of tremolite. Patchy talc, sparse, partly degraded albite, thinly disseminated pyritised pyrrhotite.	Medium-grained, faintly directed. Patchy, vague coarse semi-pseudomorphs (talc after ?pyroxene).	Traces dravite, minor ankeritic carbonate.	Affinities with 153.2, 182.1m facies in SD 14. Steatitised ?talc-tremolite-dioptide rock.
115.1m (T.S. 35943)	<u>Mica Adamellite.</u> Quartz, moderately sericite-stained oligoclase, incipiently kaolin-stained orthoclase-microparhite in near-equal proportions, sparse Ti-biotite, rare muscovite flakes.	Uneven-grained, granitic to locally subgraphic ("granophytic").	Minor chlorite (after biotite). Traces partly metamict monazite. Rare pyrite, ?chalcopyrite.	Typical characteristice of N.W. Tasmanian "tin granites". Mildly greisened. Sulphide is ultrafine, associated with chloritised biotite.
121.9m	<u>Greisen.</u> Quartz and muscovite with conspicuous fluorite, disseminated topaz, schorl, dravite, muscovitised biotite. Orthoclase-microparhite, quartz, variably muscovitised oligoclase.	Medium- to coarse-grained, weakly banded greisen. Granitic-textured selvage.	Traces pyrite, chalcopyrite, cloudy (secondary) rutile. Rare apatite.	Greisened adamellite (sim. 115.1m) with accessory tourmaline in contact with greisen vein or segregation. Contact is transitional, mica-rich.
174.4m	<u>Biotite Adamellite.</u> Quartz and orthoclase-microparhite, slightly subordinate, weakly muscovitised oligoclase, disseminated Ti-biotite, sparse topaz, schorl, minor phlogopite.	Uneven-grained, granitic. Incipiently stressed.	Traces fluorite, monazite, pyrite, dravite, chlorite.	Close affinities with 115.1m. Mildly greisened with muscovite after plagioclase, phlogopite after biotite, topaz. Topaz is late-, tourmaline early post-magmatic.
182.7m	<u>Biotite Granite.</u> Quartz and orthoclase-microparhite with relatively minor, moderately sericitised oligoclase, disseminated, weakly chloritised Ti-biotite, extensively kaolinised topaz.	Weakly directed, weakly orthoclase-porphyritic, granitic. Incipiently stressed.	Metamict monazite, zircon inclusions in biotite.	Close affinities with 115.1m and particularly 174.4m. Relatively potassic (granitic, verging on alkali granitic), mildly greisened. Primary topaz.
200.4m	<u>Greisened "Granite"</u> Quartz and feldspar-semi-pseudomorphous muscovite-quartz aggregates, subordinate, muscovitised biotite. Disseminated clots, films schorl, dravite, arsenopyrite, pyrite.	Relict, even-grained, granitic.	Traces zircon, monazite, secondary rutile. Minor sideritic carbonate. Rare chalcopyrite.	Thoroughly greisened (muscovitised/silicified), relatively coarse-grained biotitic granitoid, with sparse veins quartz, arsenopyrite, (pyritised) pyrrhotite.
239.5m	<u>Quartz-Tourmaline Rock.</u> Quartz, with subordinate colour-variable schorl, closely intergrown dravite, sparse muscovite.	Medium- to coarse-grained, granular quartz, weakly poikilitic tourmaline.	Traces fluorite, apatite, minor traces zircon.	Greisen-type vein or segregation with affinities to 121.9m.

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RENISON LIMITED
DIAMOND DRILL HOLE PLOT

HOLE No.: 50 15 contd.

SCALE:

PETROGRAPHIC DESCRIPTIONS

(C.M.S. REPORT 81/1/41)

SAMPLE NO.	CLASSIFICATION - COMPOSITION	FABRIC	ACCESSORIES	COMMENTS
247.5m	<u>Grainaged Pelite.</u> Fine to semi-sericitic muscovite, subordinate to minor, closely intergrown quartz, pale phlogopite. Locally conspicuous fine-grained schorl. Quartz-ankerite veins.	Locally brecciated, sub- to millimetric, laminated relict pelitic. Weakly hornfelsic.	Traces fluorite, apatite, fine cloudy rutile, dark sphalerite, talc.	Muscovitised/tourmalinised pelite. Sphalerite introduced with discordant quartz-ankerite (-phlogopite-talc) veins.
251.2m (T.S., P.S. 35950)	<u>Altered Skarn.</u> Diopside with minor, closely intergrown, extensively steatitised clinohumite interspersed with semi-massive talc-minnesotaite. Patchy tremolite, spongy pyritised pyrrhotite.	Weakly schistose, crudely banded.	Minor carbonate, serpentine.	Steatitised/tremolitised, mildly sheared talc-diopside-clinohumite "skarn". No detectable Sn-phases.
260.0m (T.S., P.S. 35951)	<u>Steatitised "Serpentinite"</u> Antigorite aggregates with rosettes of phlogopite, conspicuous magnetite, interspersed spongy to semi-massive replacive fine-grained talc.	Crudely banded (magnetite). Vague pyroxene-derived mesh-textures.	Rare, semi-opaque cassiterite.	Serpentinised/partly steatitised ?diopside-magnetite skarn. Cassiterite semi-opaque grains to 1.5 x 2mm in antigorite. No detectable "soluble" Sn-phases.
265.4m (T.S., P.S. 35952)	<u>Steatitic "Serpentinite"</u> . Serpophitic and fine antigorite serpentinite with abundant spongy to semi-fibrous magnetite, subordinate chloritised phlogopite, disseminated talc flakes.	Crudely banded, semi-schistose, faint ?olivine-derived mesh-textures.	Rare clots microscopic cassiterite (<20 u) in serpentine.	Mildly sheared/partly chloritised steatitised antigoritic serpentinite. Cassiterite typically <5 u ?exsolved from ferromags. No detectable soluble Sn phases.
268.4m (T.S., P.S. 35953)	<u>Phlogopitic "Serpentinite"</u> . Antigorite and fine mesh-textured opaques. Sporadic crosscutting foliae of talc. Semi-pervasive green phlogopite magnetite aggregates. Minor late brucite veinlets.	Relict "olivine" and pyroxene-derived mesh-textures.	Patchy pyrrhotite, rare chalcopyrite, talnakhite, arsenopyrite. Traces ultrafine cassiterite, pegsite.	Complex alteration pattern with serpentinisation/steatitisation/phlogopitisation. Cassiterite <5 u wide films in serpentine. Pegsite sim. SD 14/200.7m.
274.9m (T.S., P.S. 35954)	<u>Chloritic "Serpentinite"</u> . Antigorite with sparse magnetite, interspersed with Mg-chlorite aggregates with abundant opaques (magnetite, pyrrhotite), minor talc, brucite.	Similar to 268.4m, but with poorly preserved mesh-textures. Weakly sheared.	Traces ultra-fine ?cassiterite.	Analogous to 268.4m, but with late chloritisation phlogopite. ?Cassiterite as 5 u particles, clots, microfilms in serpentine, similar to 265.4m.
284.5m (T.S., P.S. 35955)	<u>"Serpentinite"</u> Serpophitic and subradiating antigorite, conspicuous spongy, granular and fibrous magnetite, disseminated arsenopyrite, patchy brucite, chrysotile, skutterudite, talc.	Crudely banded. Locally faintly "olivine" mesh-textured. Incipiently sheared.	Minor late fibrous, subradiating dolomitic carbonate. Rare ultrafine ?cassiterite.	?Cassiterite as <5 u semi-amorphous particles, microscopic films in serpentine. No detectable soluble Sn-phase.
289.4m (T.S., P.S. 35956)	<u>Steatitised "Serpentinite"</u> . Talc with patchy relic of antigorite, disseminated spongy, granular and extremely fine fibrous "magnetite". Patchy, late porcellanous carbonate.	Mildly sheared/flattened mesh-textures. Crudely banded opaques.	Disseminated clots, minor films semi-amorphous ultrafine ?cassiterite.	Some textural affinities with SD 14/215.9m, possibly a steatitised olivine or humit marble. ?Cassiterite identical with 284.5m.
303.4m (T.S., P.S. 35957)	<u>Steatitised "Serpentinite"</u> Talc with patchy relic of antigorite, tremolite, abundant magnetite.	Relict, magnetite-rich mesh-textures. Crumulated phyllitic overprint.	Sporadic clots of amorphous ?cassiterite.	Complexly altered (serpentinised/tremolitised/steatitised) and relatively deformed. ?Cassiterite analogous to that in 284.5, 289.4m. No detectable soluble Sn phase.
305.1m (T.S., P.S. 35958)	<u>Tremolitised, Steatitised Serpentinite.</u> Very fine talc with interspersed patches antigorite, conspicuous dark sphalerite, arsenopyrite subheda, sparse magnetite, relict tremolite.	Talc pseudomorphous after fine, felted tremolite. Antigorite pseudomorphs "olivine" (?humite).	Traces ultrafine, semi-amorphous ?cassiterite. Minor traces pyrrhotite, biemuth.	Alteration analogous to 303.4m, but with introduction of sphalerite, arsenopyrite. Tremolitised/steatitised ?diopside-humite rock. Cassiterite sim. 284.5m. No detectable soluble Sn-phase.

RENISON LIMITED
DIAMOND DRILL HOLE PLOT

SCALE:

HOLE No.: SD 15 contd.

PETROGRAPHIC DESCRIPTIONS

(C.M.S. REPORT 81/1/41)

SAMPLE NO.	CLASSIFICATION - COMPOSITION	FABRIC	ACCESSORIES	COMMENTS
310.4m	<u>Talc-Brucite Magnesite Rock</u> . Talc, brucite, magnesite in varying proportions with disseminated fine to ultrafine magnetite.	Phyllitic with vague relict fine granular mesh-texture.	Minor traces fibrous magnetite, hematite in relatively sheared zones.	Steatitised/carbonated magnesian serpentinite. Primarily a fine- to medium-grained granular "olivine" (Thumite) rock.
321.4m (T.S. 35960)	<u>Diopside Rock</u> . Virtually massive diopside.	Coarse-grained, granular. Weakly microfaulted.	Minor traces talc, chlorite, quartz.	Probably a vein. Devoid of metasomatic features and (primary) accessories. Talc, quartz, heal late subparallel fractures.
326.4m (T.S. 35961)	<u>Antigoritic Marble</u> . Calcite aggregates partly replaced, veined by dolomite-ankerite. Sparse antigorite aggregates. Sparse, partly martitised magnetite.	Incipiently banded, medium-grained marble. Antigorite pseudomorphs "olivine" grains.	Minor traces talc, brucite, pyritised pyrrhotite.	Mildly stressed. Relatively pure marble, but with close affinities to SD 14/215.9m.
334.2m	<u>Serpentinised Skarn</u> . Variably talc-magnesite-stained antigorite aggregates with patchy relicts of granular diopside, localised zones of microgranular andraditic garnet.	Relict fine to micro-granular calc silicates. Fine mesh-textured to sheared serpentinite.	Sporadic chrysotile veins.	Primarily a banded garnet-diopside-olivine (Thumite) skarn. Extensively serpentinised (after olivine, diopside with late stress, partial steatitisation.
334.8m	<u>Graphitic Skarn</u> . Fine-grained diopside, quartz with frequent porphyroblasts of grossular-andradite, semi-pervasive, late poikiloblastic prehnite; conspicuous graphite.	Relict, sub- to millimetric-scale banding. Hornfelsic quartz, diopside.	Sparsely disseminated pyritised pyrrhotite.	Skarnised carbonaceous calc-pelite with late introduction of prehnite. Close affinities with SD 14/252.4m.
340.2m	<u>Antigorite Marble</u> . Cloudy, semi-porcellanous magnesite, relatively clear dolomite, patchy corroded relicts calcite. Frequent extensively leached, opaque-stained antigorite aggregates.	Medium-grained marble-like with evenly disseminated antigorite clots.	Traces corroded relict ?chondrodite. Minor traces pyritised pyrrhotite.	Mildly stressed. Altered chondrodite marble with close affinities to SD 14/215.9m. SD 15/26.4m (7289.4m).
384.4m	<u>Garnet-Diopside-Vesuvianite Skarn</u> . Granular to poikilitic grossular-andradite, closely intergrown diopside, subordinate, near-isotropic vesuvianite, patchy ankerite.	Medium-grained, weak compositional banding (metasomatised, relict) weakly microfractured.	Traces quartz, epidote-clinozoisite, minor traces pyritised pyrrhotite.	Metasomatised ?"limestone". Devoid of definite relict clastic features and relatively weakly banded in comparison with e.g. 334.8m.
401.9m	<u>Biotite "Granite"</u> . Orthoclase-microperthite and quartz, subordinate, weakly sericitised/muscovitised oligoclase, disseminated, partly chloritised Ti-biotite.	Coarse, weakly orthoclase-porphyrific, slightly myrmekitic, granitic.	Rare (primary) dravite, minor traces monazite, zircon, fluorite.	Mildly greisenised. Strictly adamellitic, but verging on granitic. Close affinities with 115.1m, 174.4m.
418.6m (T.S. 35968)	<u>Greisenised Granite</u> . Quartz and quartz-muscovite semi-pseudomorphed feldspar, minor muscovitised biotite. Disseminated dravite, schorl, arsenopyrite, sparse pyritised pyrrhotite.	Quartz-tourmaline-arsenopyrite-veined, vague, relict coarse-granitic (sim. 401.9m).	Traces ankeritic carbonate. Rare fluorite, chalcopyrite.	Thoroughly greisenised (muscovitised, silicified) coarse granitoid. Near-identical with SD 15/200.4m.

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