









GOLD FIELDS EXPLORATION PTY. LIMITED  
**DRILL CORE LOG AND ASSAY DATA**

418058

PROJECT: TYNDALL

HOLE NUMBER: LS. 11

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V. PRESS

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA (p.p.m)														
From	To	m	%		Sample No.	From	To	Rec. %	Au	Cu	Pb	Zn	Ag						
				107.0-362.6 PYRITIC VOLCANICLASTICS RICH IN QUARTZ AND PUMICE FRAGMENTS, WITH MINOR CHERTS AND RHYODACITIC LAVAS. STRONGLY MAGNETITIC AND HEMATITIC AT DEPTH.	12784	107	109	100	<0.01	310	<10	60	<1						
					12785	113	115	100	"	60	<10	20	<1						
07.0	164.0	57.0	100	Pale grey-green cherts and volcaniclastics. This unit is bedded, sub-aqueous and moderately pyritic - 5-10% vol. It is also moderately altered with abundant quartz and pale green sericite (all cryptocrystalline)-obscuring the bedding relationships. Some of the volcaniclastic beds contains small chloritic clasts otherwise they are fine grained. The pyrite occurs as veinlets and disseminations in both rock types. With depth the cherty sediments change, some being pale pink (hematitic?) and patches of semi-massive pyrite are developed. Overall the unit is incipiently foliated.	12786	119	121	100	"	520	<10	40	<1						
				Below 145.0, the volcaniclastics begin to dominate and become rich in quartz crystals (up to 2-3mm). Minor chalcopyrite occurs with the pyrite and as small blebs.	12787	125	127	100	"	25	<10	20	<1						
				At 161.0, a 20cm zone of chlorite-pyrite occurs. The pyrite forms lenses or beds of rounded aggregates (about 75% pyrite by vol.) - suggesting a syn-sedimentary origin.	12788	131	133	100	"	25	<10	20	<1						
					12789	137	139	100	"	50	<10	50	<1						
					12790	143	145	100	"	60	<10	10	<1						
64.0	217.0	53.0	100	Pale grey hematitic and pyritic volcaniclastics. The unit is very crudely bedded i.e. is more massive, and appears to be sub-marine. The contact between this unit and the one above is entirely gradational. The volcaniclastics are very coarse grained-almost grits, with abundant quartz crystals ranging up to 0.5cm across in size and many small angular chloritic and weakly hematitic fragments. Pyrite forms small thin stringers and semi-massive layers similar to that at 161.0 above. Pale pink-red hematite patches are developed. The matrix is altered to chlorite-sericite; overall the unit is moderately altered. Foliation is incipiently developed. Minor chalcopyrite blebs are scattered throughout the core. Some of the fine grained units are included as fragments in the coarser lithologies (soft-sediment deformation?). Calcite occurs rarely as small	12791	149	151	100	"	50	<10	60	<1						
					12792	155	157	100	"	55	<10	40	<1						
					12793	161	163	100	"	295	<10	110	<1						
					12794	167	169	100	"	195	<10	70	1						
					12795	173	175	100	"	65	<10	60	<1						

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From	To	m	%		Sample No.	From	To	Rec. %	Au	Cu	Pb	Zn	Ag					
				veinlets.	12796	179	181	100	<0.01	410	<10	90	1					
				Below 205.5, quartz-green chlorite veins appear-metamorphic veins.														
				Overall the pyrite content is 5-10% vol.														
					12797	185	187	100	.	270	<10	120	<1					
17.0	245.5	28.5	100	Pale grey-green coarse grained chloritic-sericitic volcaniclastics with large (up to 30cm across) moderately to strongly brecciated fragments of red hematitic lava. The brecciating material is very strongly chloritic (dark green) and pyritic. The lava has the strong quartz porphyritic character (phenocrysts up to 0.5cm) of the rhyodacite above. The lava fragments are common to 237.0, but then, become far less abundant and smaller as well. The chalcopyrite blebs are slightly larger (up to 2cm across) between 237.0 and 45.5. After 245.5, no lava fragments occur; the volcaniclastics occur as before.	12798	191	193	100	.	90	<10	160	<1					
					12799	197	199	100	"	240	<10	160	<1					
					12800	203	205	100	"	60	<10	100	<1					
45.5	301.9	56.4	100	Pale grey-green, coarse grained volcaniclastics. Variably but moderately altered with abundant sericite and patches of dark green chlorite associated with lenses of pyrite. Ash fragments are very common and are replaced by white sericite. Coarse grained quartz crystals (anhedral) are also common. The unit is bedded with several thin, dark green chloritic, fine grained beds at 50° CA. Overall the unit has 5-10% vol. pyrite. Chalcopyrite rarely occurs. A weak foliation is developed. The grading in thin, fine grained bed at 260.9, indicates that the hole is progressing up through the sequence. Minor calcite veining occurs throughout.	12801	209	211	100	.	260	20	60	1					
				At 293.5, small scale fault (post-mineralisation) occur with 1-2cm offsets.	12802	215	217	100	"	40	10	140	<1					
				With depth, the volcaniclastics become finer grained and contain large patches of pale pink cherty sediments.	12803	221	223	100	"	70	<10	80	<1					
					12804	227	229	100	"	120	<10	40	<1					
					12805	233	235	100	.	3,300	<10	120	2					
					12806	239	241	100	"	1,150	30	70	1					
101.9	336.1	34.2	100	Green-grey volcaniclastics, pale pink cherts and minor reddish hematite fragments. A sub-aqueous sequence of interbedded pale and dark green volcaniclastics containing numerous, small quartz crystals, sericitic pumiceous fragments and hematitic fragments?	12807	245	247	100	"	850	<10	60	<1					

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INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA (p.p.m)													
From	To	m	%		Sample No.	From	To	Rec. %	Au	Cu	Pb	Zn	Ag					
				Pale pink cherty sediments are also interbedded (20-30cm Scale). The unit is moderately pyritic with approx. 5% by vol. pyrite - mainly as thin colloidal-type beds. Bedding is at 40° CA, and a foliation is developed at a similar altitude. Quartz-chlorite, hematite metamorphic veins are developed and small veins of hematite also occur. Overall, alteration is weak, with chlorite-sericite-weak hematite developed. Evidence for small scale faulting (possibly syn-sedimentary) is widespread. The volcanoclastic vary widely with quartz crystal rich layers; gritty and coarse grained; very fine grained, dark green chloritic beds and very coarse grained lenses containing the hematitic fragments (up to 10cm wide). These lithologies are interbedded on a fine scale (1-10cm).	12808	251	253	100	<0.01	1,470	60	970	1					
					12809	257	259	100	"	950	790	340	2					
					12810	263	265	100	"	760	<10	120	<1					
					12811	269	271	100	"	1,550	20	110	<1					
					12812	275	277	100	"	1,290	10	110	<1					
				The cherty sediments are rare below 315.0. Bands or veins (1-2cm wide) of magnetite occur. Magnetite often forms the matrix for the brecciated hematitic fragments also. Large scale beds (20-30cm) of colloidal pyrite with minor magnetite rarely occur.	12813	281	283	100	"	2,320	10	70	<1					
					12814	287	289	100	"	2,590	30	100	<1					
36.1	362.6	26.5	100	Pink-green volcanoclastics as above, strongly altered and replaced with magnetite-hematite-quartz. This alteration assemblage has replaced, veined and overprinted the original volcanoclastic sequence as described in the unit above. Massive patches and veins of quartz-secondary feldspar?-hematite-magnetite occur. Magnetite occurs pervasively through the volcanoclastics (which are still strongly chloritic and pyritic). Small fault/vein? filled breccias of quartz-hematite-altered volcanoclastics fragments in a black magnetite matrix occur at 339.3 (10cm wide) and 342.3 (5cm wide). Their attitudes parallel the prevailing foliation (40° CA). Metamorphic veins of red hematite-quartz are common throughout. Zones of stronger hematite-quartz alteration (+ secondary feldspars?) are distinguishable as bright red patches in the core.	12815	293	295	100	"	7,800	<10	140	<1					
					12816	299	301	100	"	1,250	30	90	<1					
					12817	305	307	100	"	340	30	80	<1					
					12818	311	313	100	0.15	250	20	190	<1					
				Between 339.3 and 347.0, the chlorite-magnetite alteration style dominates.	12819	317	319	100	<0.01	400	120	1,320	<1					



