

PROJECT: TYNDALL

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: JP3

Page: 4.

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA (p.p.m)															
From	To	m	%		Sample No.	From	To	Rec. %	Au	Cu	Pb	Zn	Ag							
				rock is strongly but patchily sericitised. This unit appear to grade into ore below.	12501	199.0	200.0	100	<0.01	25	<10	30	3							
					12502	200.00	201.0	100	<0.01	40	20	50	2							
					12503	201.0	202.0	100	<0.01	35	40	30	1							
				212.2-267.7 HIGHLY CHLORITIC VOLCANICLASTICS WITH MINOR CHALCOPYRITE MINERALISATION. A SHEARED ZONE EXISTS ON THE UPPER CONTACT.	12504	202.0	203.0	100	<0.01	175	50	90	2							
					12505	203.0	204.0	100	<0.01	30	10	40	1							
					12506	204.0	205.0	100	<0.01	30	20	40	2							
12.2	213.6	1.4	100	Pale green-brown, moderately sheared, weakly weathered, fine grained volcaniclastic with numerous small (1-2mm) quartz fragments. The unit is sericitised, moderately fractured and is limonitic, with dendritic black manganese developed. The limonite shows up the foliation and shearing planes. A clayey pug is also developed. Large, irregular shaped lithic fragments also occur. The shearing is at 35° CA. A sharp break in the alteration style occurs between this unit and the one below.	12507	205.0	206.0	100	<0.01	60	40	50	2							
					12508	206.0	207.0	100	<0.01	40	30	40	<1							
					12509	207.0	208.0	100	<0.01	115	150	170	2							
					12510	208.0	209.0	100	<0.01	55	40	90	1							
					12511	209.0	210.0	100	<0.01	45	40	80	1							
					12512	210.0	211.0	100	<0.01	30	20	50	1							
					12513	211.0	212.0	100	<0.01	35	50	80	1							
					12514	212.0	213.0	100	<0.01	120	920	90	3							
					12515	213.0	214.0	100	<0.01	1130	340	280	2							
13.6	267.7	54.1	100	Dark green-grey-black, strongly chloritic volcaniclastic (predominantly ash, although patches of highly altered lava may be present) containing quartz and lithic (lava?) fragments. The strong chloritic nature of the rock obscures the primary features of the unit. The rock is weakly sheared over the first 3-4m.	12516	214.0	215.0	100	0.02	2920	20	410	3							
					12517	215.0	216.0	100	0.03	7000	20	460	4							
					12518	216.0	217.0	100	<0.01	2560	50	550	1							
					12519	217.0	218.0	100	0.06	7500	650	530	3							
					12520	218.0	219.0	100	0.16	9500	950	440	3							
					12521	219.0	220.0	100	0.11	2150	130	480	<1							
				After 214.0, sulphides in the form of chalcopyrite and minor pyrite occur, probably around 0.5% by vol. The sulphides occur mainly as wispy shaped, coarse disseminations and with numerous quartz stockwork/breccias and veins (all 10cm wide). This quartz development which begins to occur below 218.0, is a replacement feature. The veins and breccia/stockworks are irregular in shape and attitude, but are generally steeply dipping. The rock is not foliated apart from the sulphides sometimes occurring as weakly sheared out stringers.	12522	220.0	221.0	100	0.04	6800	170	410	3							
					12523	221.0	222.0	100	0.32	10200	310	460	5							
					12524	222.0	223.0	100	0.11	12,200	1370	420	6							
					12525	223.0	224.0	100	0.04	3,250	1340	420	2							
					12526	224.0	225.0	100	<0.01	5,700	1160	360	2							
					12527	225.0	226.0	100	0.04	3,330	20	450	2							
					12528	226.0	227.0	100	0.05	7,710	20	420	<1							
					12529	227.0	228.0	100	0.02	2,160	20	380	<1							
					12530	228.0	229.0	100	<0.01	2,140	50	350	<1							
				The fragments in the volcaniclastics include pink hematitic lavas larger dark green chloritic lavas? as well as the quartz fragment. Diffuse pale red-pink hematite alteration also occurs as patches possibly representing larger lava blocks.	12531	229.0	230.0	100	0.06	270	70	330	<1							
					12532	230.0	231.0	100	0.05	3,810	80	260	1							
					12533	231.0	232.0	100	0.06	3,580	80	300	<1							
					12534	232.0	233.0	100	<0.01	1,620	50	270	<1							
				Below 234.0, the quartz stockworking/brecciation disappears.	12535	233.0	234.0	100	<0.01	7,510	80	200	<1							

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

418113

PROJECT: TYNDALL

HOLE NUMBER: JP3

Page: 5.

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA (p.p.m)													
From	To	m	%		Sample No	From	To	Rec. %	Au	Cu	Pb	Zn	Ag	WO ₃				
				leaving only a few quartz-calcite-sulphide stringers and veins.	12536	234.0	235.0	100	0.02	250	120	250	<1					
				Also below 234.0, the red hematite lava fragments (av. 0.5-	12537	235.0	236.0	100	<0.01	300	290	210	<1					
				1.0cm across) become abundant. The sulphide content appears to	12538	236.0	237.0	100	<0.01	220	60	170	<1					
				fall off slightly into this fragment-rich volcaniclastic breccia.	12539	237.0	238.0	100	0.04	1400	60	130	<1					
				At 244.6m, the pink lava fragments disappear and the volcan-	12540	238.0	239.0	100	<0.01	2,700	30	210	<1					
				iclastic becomes more massive, featureless and fine grained.	12541	239.0	240.0	100	<0.01	780	60	130	<1					
				The sulphides are also fine grained and are rare.	12542	240.0	241.0	100	<0.01	680	160	160	<1					
				At 252.7m, a 0.3m zone of quartz-chalcopyrite-veins and	12543	241.0	242.0	100	<0.01	475	50	220	<1	60				
				massive stockworking occurs.	12544	242.0	243.0	100	<0.01	560	60	210	<1	50				
				At 259.6m, the rock becomes coarser grained and rich in	12545	243.0	244.0	100	<0.01	1360	60	230	<1	50				
				fragments again, with numerous pink lava chips and white quartz	12546	244.0	245.0	100	<0.01	860	150	220	<1	50				
				grains. The sulphide content remains at the low level shown	12547	245.0	246.0	100	<0.01	275	120	160	<1	50				
				above, apart from two massive chalcopyrite splashes/veins	12548	246.0	247.0	100	<0.01	260	170	180	<1	70				
				at 266.8 (5cm wide) and 267.2 (10cm wide). This unit grades	12549	247.0	248.0	100	0.02	285	320	150	<1	60				
				into the lava unit below.	12550	248.0	249.0	100	<0.01	235	240	170	<1	60				
					12551	249.0	250.0	100	0.03	1240	70	180	<1	70				
				267.7-351.0 AUTOBRECCIATED RHYODACITIC LAVAS AND VOLCANICLASTICS	12552	250.0	251.0	100	0.03	390	300	170	1	90				
				THE LAVAS ARE STRONGLY HEMATITIC AND SILICIC.	12553	251.0	252.0	100	<0.01	960	40	200	<1	60				
					12554	252.0	253.0	100	0.01	24500	<10	290	10	170				
267.7	307.0	39.3	100	Red, silicified, hematitic rhyodacitic lava, auto-brecciated	12555	253.0	254.0	100	<0.01	1170	20	160	<1	50				
				in and intercalated with a dark green chloritic ash. Sulphides,	12556	254.0	255.0	100	<0.01	395	100	160	<1	60				
				chalcopyrite and pyrite occur in veinlets, remobilised metamorphic	12557	255.0	256.0	100	<0.01	425	20	140	<1	40				
				veins and disseminated in the ash, which is strongly sericitic	12558	256.0	257.0	100	<0.01	275	<10	140	<1	60				
				in places. Overall the unit is strongly altered and veined.	12559	257.0	258.0	100	<0.01	160	180	140	<1	40				
				The lava is abundant, but very discontinuous, being completely	12560	258.0	259.0	100	<0.01	660	60	170	<1	50				
				fractured in the ash. The sulphide content is low (probably	12561	259.0	260.0	100	<0.01	365	10	180	<1	60				
				0.5% by vol.).	12562	260.0	261.0	100	<0.01	650	20	230	<1	60				
				Below about 280.0, 2-3m wide zones of lava rich ash occur.	12563	261.0	262.0	100	<0.01	350	10	200	<1	100				
				Below 296.0, the lava is less hematitic and more chloritic,	12564	262.0	263.0	100	<0.01	465	<10	180	<1	50				
				i.e. dark red and green in colour. This continues to 307.0	12565	263.0	264.0	100	<0.01	170	50	170	<1	60				
				where another ash sequence occurs.	12566	264.0	265.0	100	<0.01	215	20	190	<1	60				
					12567	265.0	266.0	100	<0.01	275	20	220	<1	40				
307.0	330.0	23.0	100	Volcaniclastics consisting of numerous, small red, hematitic	12568	266.0	267.0	100	<0.01	6,300	20	180	2	90				
				lava fragments and white quartz fragments in a dark fine grained	12569	267.0	268.0	100	<0.01	23,300	20	160	3	150				
				chloritic ash. Sulphides are only incipiently developed.	12570	268.0	269.0	100	<0.01	820	30	180	1	70				

LV. PRESS

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA (ppm)													
From	To	m	%		Sample No.	From	To	Rec. %	Au	Cu	Pb	Zn	Ag	WO ₃				
				The ash is crudely bedded in places at 28° CA. A few large (20-30cm) lava chunks occur. The rock is weakly altered, poorly veined and fractured. It appears to be weakly foliated.	12571	269.0	270.0	100	<0.01	490	20	200	<1	60				
				With depth the lava fragments increase gradually into the unit below.	12572	270.0	271.0	100	<0.01	325	50	180	1	80				
					12573	271.0	272.0	100	<0.01	505	20	210	<1	70				
					12574	272.0	273.0	100	<0.01	700	<10	240	<1	70				
					12575	273.0	274.0	100	<0.01	4,370	50	190	1	80				
					12576	274.0	275.0	100	<0.01	1,370	20	250	1	60				
330.0	351.0	21.0	100	Red silicified, hematitic lava with minor intercalated chloritic ash. Sulphides are rare. The unit is moderately fractured and veined. In places, the rock becomes highly fractured and two major, deep weathered zones occur. At 331.0 and 339.0 2.0m and 5.0m (respectively) zones occur. These are characterised by abundant limonite and a high degree of fracturing in the lava.	12577	275.0	276.0	100	<0.01	1,470	90	1170	<1	60				
					12578	276.0	277.0	100	0.04	1,450	60	200	<1	60				
					12579	277.0	278.0	100	0.11	4,940	30	200	1	70				
					12580	278.0	279.0	100	0.03	4,050	60	1260	2	70				
					12581	279.0	280.0	100	0.04	1,510	50	450	<1	60				
					12582	280.0	281.0	100	0.01	4,440	50	230	1	60				
					12583	281.0	282.0	100	0.03	2,240	30	350	1	70				
					12584	282.0	283.0	100	<0.01	1,800	30	260	<1	70				
				END OF HOLE 351.0m.	12585	283.0	284.0	100	<0.01	1,110	40	140	<1	60				
					12586	284.0	285.0	100	<0.01	6,380	70	150	1	80				
					12587	285.0	286.0	100	0.03	2,030	80	230	1	60				
					12588	286.0	287.0	100	<0.01	1,320	30	80	<1	60				
					12589	287.0	288.0	100	<0.01	1,450	20	290	1	100				
					12590	288.0	289.0	100	0.45	4,700	20	340	2	80				
					12591	289.0	290.0	100	0.06	3,180	50	710	1	60				
					12592	290.0	291.0	100	0.09	4,090	70	290	2	80				
					12593	291.0	292.0	100	<0.01	1,180	80	320	1	80				
					12594	292.0	293.0	100	0.02	3,510	30	290	1	70				
					12595	293.0	294.0	100	<0.01	900	20	270	1	70				
					12596	294.0	295.0	100	<0.01	200	30	380	<1	70				
					12597	295.0	296.0	100	<0.01	395	30	240	<1	80				
					12598	296.0	297.0	100	<0.01	495	10	430	1	80				
					12599	297.0	298.0	100	<0.01	1430	<10	230	1	110				
					12600	298.0	299.0	100	0.05	5230	20	350	2	90				
					12601	299.0	300.0	100	<0.01	2540	40	230	2	90				
					12602	300.0	301.0	100	<0.01	2190	30	370	2	100				
					12603	301.0	302.0	100	0.03	4000	30	450	1	100				
					12604	302.0	303.0	100	0.05	1,010	30	320	3	80				
					12605	303.0	304.0	100	0.71	3710	20	280	2	60				

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

PROJECT: TYNDALL

HOLE NUMBER: JP3

Page: 7.

LV. PRESS

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA															
From	To	m	%		Sample No.	From	To	Rec. %	Au	Cu	Pb	Zn	Ag	WO ₂						
					12606	304.0	305.0	100	0.02	1840	15	240	1	70						
					12607	305.0	306.0	100	<0.01	750	30	230	1	80						
					12608	306.0	307.0	100	0.12	540	20	620	1	70						
					12609	307.0	308.0	100	<0.01	900	30	370	1	80						
					12610	308.0	309.0	100	<0.01	2290	30	430	1	80						
					12611	309.0	310.0	100	<0.01	225	30	250	1	70						
					12612	310.0	311.0	100	<0.01	145	10	210	1	70						
					12613	311.0	312.0	100	<0.01	275	30	240	1	80						
					12614	312.0	313.0	100	<0.01	205	20	290	1	130						
					12615	313.0	314.0	100	<0.01	555	10	280	1	90						
					12616	314.0	315.0	100	<0.01	440	20	270	1	70						
					12617	315.0	316.0	100	<0.01	180	40	340	1	90						
					12618	316.0	317.0	100	<0.01	135	100	1680	1	70						
					12619	317.0	318.0	100	<0.01	120	40	290	1	80						
					12620	318.0	319.0	100	<0.01	940	50	180	1	110						
					12621	319.0	320.0	100	<0.01	335	25	150	1	50						
					12622	320.0	321.0	100	<0.01	445	195	370	1	70						
					12623	321.0	322.0	100	<0.01	395	70	1050	1	100						
					12624	322.0	323.0	100	<0.01	1630	265	310	1	180						
					12625	323.0	324.0	100	<0.01	600	230	450	1	130						
					12626	324.0	325.0	100	<0.01	830	140	420	1	50						
					12627	325.0	326.0	100	<0.01	340	110	330	1	80						
					12628	326.0	327.0	100	<0.01	280	30	330	1	60						
					12629	327.0	328.0	100	<0.01	315	70	410	1	60						
					12630	328.0	329.0	100	<0.01	1100	110	290	1	80						
					12631	329.0	330.0	100	<0.01	215	80	200	1	90						
					12632	330.0	331.0	100	<0.01	990	40	240	1	90						
					12633	331.0	332.0	100	0.03	920	40	70	1	180						
					12634	332.0	333.0	100	<0.01	1,250	10	130	1	100						
					12635	333.0	334.0	100	<0.01	740	20	80	1	90						
					12636	334.0	335.0	100	<0.01	900	40	50	1	80						
					12637	335.0	336.0	100	<0.01	1,110	30	150	1	110						
					12638	336.0	337.0	100	0.02	2,940	80	1150	1	70						
					12639	337.0	338.0	100	<0.01	3,550	70	330	1	100						
					12640	338.0	339.0	100	<0.01	260	20	250	1	60						

DRILL CORE LOG AND ASSAY DATA

PROJECT: TYNDALL

HOLE NUMBER:

JP3

Page: 8.

JLV. PRESS

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA (p.p.m)									
From	To	m	%		Sample No.	From	To	Rec. %	Au	Cu	Pb	Zn	Ag	WO ₃
					12641	339.0	340.0	100	<0.01	110	30	180	<1	110
					12642	340.0	341.0	100	<0.01	260	30	420	<1	70
					12643	341.0	342.0	100	<0.01	1,100	30	310	<1	190
					12644	342.0	343.0	100	<0.01	1690	<10	340	<1	160
					12645	343.0	344.0	100	<0.01	445	140	270	<1	90
					12646	344.0	345.0	100	<0.01	85	<10	120	<1	60
					12647	345.0	346.0	100	<0.01	155	<10	140	<1	90
					12648	346.0	347.0	100	<0.01	150	30	160	<1	50
					12649	347.0	348.0	100	<0.01	90	<10	210	<1	70
					12650	348.0	349.0	100	<0.01	45	<10	150	<1	40
					12651	349.0	350.0	100	<0.01	75	10	100	1	60
					12652	350.0	351.0	100	<0.01	65	10	180	<1	50