102049

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO. :	HPC27
STATE :	TASMANIA

PROJECT	TYNDALL
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	16-7-87
COMPLETED	3-8-87

PURPOSE

TO TEST THE HENTY MINERALISED ZONE IN A 50M SQUARE PATTERN AROUND THE HP4 INTERSECTION.

LOG SUMMARY

A VARIABLY MINERALISED ZONE WAS ENCOUNTERED BEGINNING ALMOST ON THE FAULT FOOTWALL AT 190.7M. THIS ZONE ENDED AT 227.6M AND SIGNIFICANT ASSAYS ARE RECORDED BELOW.

GENERAL COMMENTS

ASSAY SUMMARY

INTERVAL From	INTERVAL To	Width	Au	Ag	As	Cu	Pb	Zn	Bi - all ppm				COMMENTS
190.7	199.7	9.0m	0.28	5.0	37	103	144	135	5				
and													
220.6	228.6	8.0m	0.80	3.2	73	2169	566	364	12				
including													
226.6	228.6	2.0m	2.57	6.0	41	3300	233	198	15				

LOCATION

NORTHING	5364156.6
EASTING	380016.1
R.L.	2586.8
GRID	AMG
LENGTH	269.0

HOLE CONDITION

SIZE Hole Size	SIZE Depth
HW	0.0-8.5
HQ	8.5-269.0

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost
4.0	9.2	20

POOR GROUND CONDITION ZONES From	To	Condition
0.0	30.5	Weathered hangingwall rocks.
151.0	189.8	Henty Fault. Mylonite and crushed rock and clay.
215.5	217.5	Very strgly fractured & sericitic.
227.6	230.5	Very strgly fractured & sericitic.

HOLE CONDITIONS AFTER COMPLETION

ALL CASING AND RODS REMOVED.
A HOLE MARKER HAS BEEN LEFT IN THE COLLAR.

SURVEY DATA (Note: Bearing type must be same as Project Grid Type)

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D.Sin.Dip	VERTICAL R.L.	HORIZONTAL D.Cos.Dip	HORIZONTAL Prog.Total
0.0	095	59.0	0.0	27.0	27.0	23.1	2563.7	13.9	13.9
54.0	096	57.0	27.0	69.5	42.5	35.6	2528.1	23.2	37.1
85.0	097	56.0	69.5	102.5	33.0	27.4	2500.7	18.5	55.5
120.0	-	54.0	102.5	137.5	35.0	28.3	2472.4	20.6	76.1
165.0	096	52.0	137.5	185.5	48.0	37.8	2434.6	29.6	105.6
206.0	096	52.0	185.5	237.5	52.0	41.0	2393.6	32.0	137.7
268.9	096	51.5	237.5	269.0	31.5	24.7	2368.9	19.6	157.3

SURVEY Depth	SURVEY Bearing	SURVEY Dip	INTERVAL From	INTERVAL To	INTERVAL Distance	VERTICAL D.Sin.Dip	VERTICAL R.L.	HORIZONTAL D.Cos.Dip	HORIZONTAL Prog.Total

PROJECT: **TYNDALL** HOLE NO.: **HP 27**

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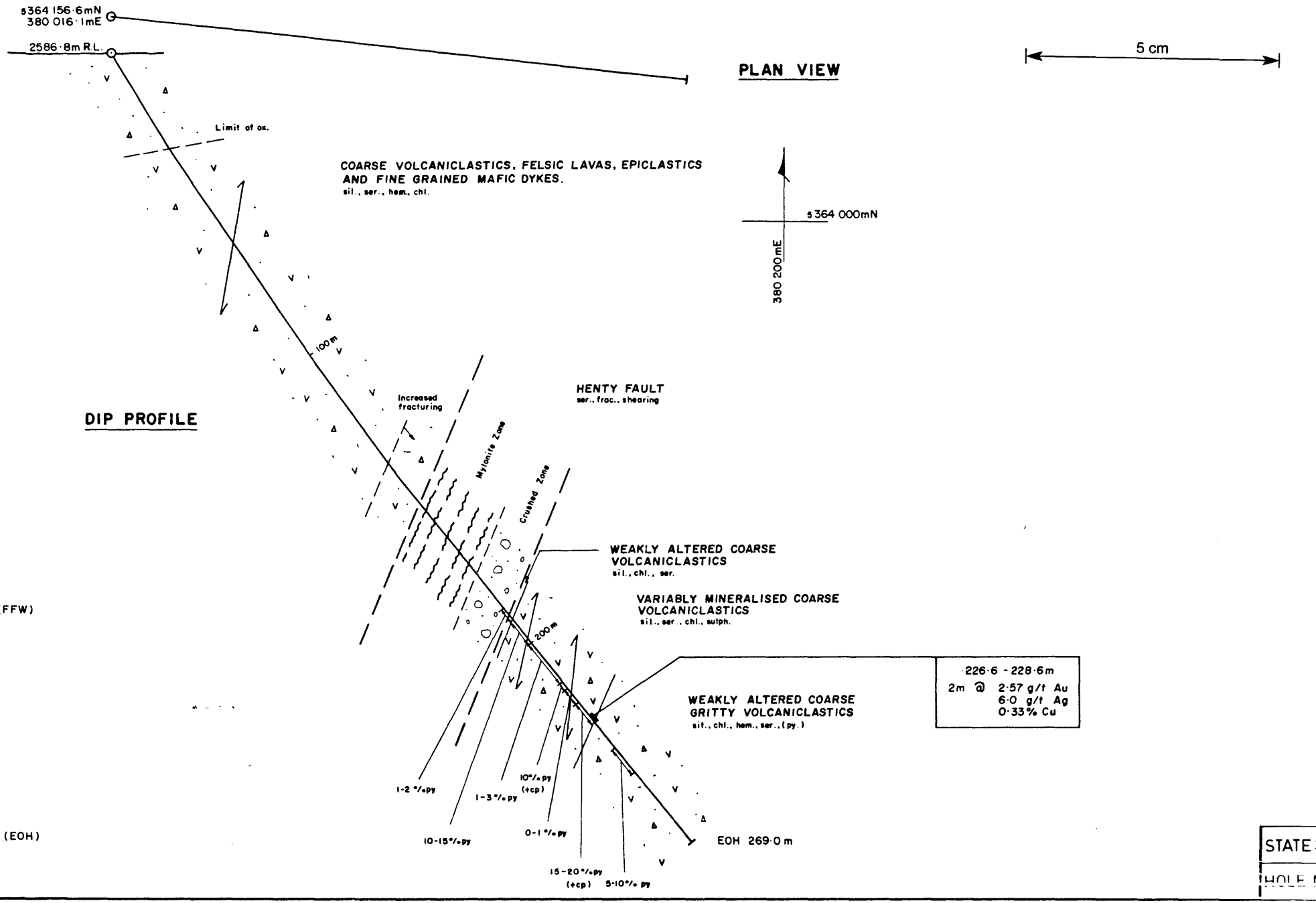
DRILL HOLE PLOT

SCALE 1:1000 20 10 0 20 40 METRES



STATE: **TAS.**

HOLE NO. **HP27**

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PROJECT: TYNDALL

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: HP 27 Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				SUMMARISED LOG
0.0	151.0	150.0	99	COARSE GRAINED VOLCANICLASTICS WITH MINOR FELSIC LAVAS AND EPICLASTICS, CUT BY A SERIES OF MAFIC DYKES.
151.0	189.8	38.8	100	HENTY FAULT. STRONGLY FRACTURED AND SHEARED MYLONITIC VOLCANICS AND COMPLETELY SHATTERED SERICITIC ROCK AND PUGGY CLAY.
189.8	190.7	0.9	100	WEAKLY MINERALISED AND ALTERED COARSE GRAINED VOLCANICLASTICS.
190.7	227.6	36.9	100	VARIABLY BUT IN PLACES STRONGLY MINERALISED COARSE GRAINED VOLCANICLASTICS. SILICIFIED STRONGLY IN PATCHES WITH HIGHLY FRACTURED ZONES DEVELOPED ALSO.
227.6	269.0	41.4	100	WEAKLY ALTERED COARSE GRITTY VOLCANICLASTICS WITH MINOR ZONES OF WEAK PYRITE MINERALISATION. MINOR SILICIFICATION ALSO OCCURS.
				DETAILED LOG
				0.0-151.0 COARSE GRAINED VOLCANICLASTICS, FELSIC LAVAS AND EPICLASTICS CUT BY A SERIES OF MAFIC DYKES.
0.0	4.0			Tricone, no core recovered.
4.0	9.2	4.2	80	Strongly weathered, limonitic, clayey, deep brown coloured volcanics. Highly fractured.
9.2	30.5	21.3	100	Weakly weathered coarse grained volcaniclastics and felsic lavas with several thin (0.2m wide) fine grained mafic dykes. Moderately fractured with pale brown limonite developed around the more highly fractured zones.

ASSAY DATA Sample No.	From	To	Rec. %
			PGI
	0.0	30.5	HWWT
	30.5	151.0	HWUW
	151.0	176.0	FTMY
	176.0	189.8	FTCS
	189.8	190.7	FLIAW
	190.7	227.6	FLMZ
	227.6	269.0	FLIAW

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PROJECT: TYNDALL

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: HP27

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
30.5	151.0	120.4	100	Dark green-pink coarse grained volcaniclastics with minor intercalated autobrecciated felsic lavas. This sequence is cut by a series of thin, fine grained mafic dykes. A few lenses of fine grained epiclastics are also present. The sequence is metamorphosed to a quartz-chlorite-hematite assemblage, the chlorite being abundant in the volcaniclastics, epiclastics and mafic dykes, while the quartz-hematite is developed in the felsic lavas. Thick irregular quartz-chlorite veins are also developed in the lavas and the dykes contain numerous irregular quartz veins. The volcanicalstics are rich in pink lava fragments - grit sized and angular. The core is weakly fractured, with rare strong fractured zones, and is weakly foliated at 45° CA. The dykes, fractured zones, epiclastic lenses and lavas all range in thickness from 0.2 to 1.0m.
				Between 75.0 and 82.0 two mafic dykes 2.5 and 1.8m thick each, are present.
				At 118.0, the core is more silicic and hematitic also it is very lava rich. This continues down to 137.0.
				At 137.0, the core becomes more fractured, increasing to moderately fractured. At 150.3, it also becomes sericitic and strongly fractured to the end of the sequence.
				151.0-189.8 HENTY FAULT. STRONGLY FRACTURED AND SHEARED MYLONITE AND SHATTERED CRUSHED ZONE.
151.0	176.0	25.0	100	Strongly fractured and sheared, pale cream-green-pink mylonitic volcanics. In places completely shattered rock consisting of sericitic volcaniclastics and mafic dykes. A very strong cleavage is developed at 50°CA, and this is often kink banded by later deformation. The rock is soft and contains many irregular quartz veinlets.
				Between 167.0 and 176.0, the end of the unit, the core is softer, greener, more sericitic and contains several puggy clay-crushed zones, up to 0.4m wide. Also a few thick (0.1-0.2m) quartz veins occur.

ASSAY DATA Sample No.	From	To	Rec. %

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GOLD FIELDS EXPLORATION PTY. LIMITED

PROJECT: TYNDALL

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: HP 27 Page: 3.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	Sample No.	From	To	Rec. %	Au	Ag	As	Cu	Pb	Zn	Bi
									ASSAY DATA (all ppm)						
176.0	189.8	13.8	100	Intensely fractured, semi-consolidated green-grey crushed rock. Strongly sericitic with numerous poorly sorted siliceous-sericitic coarse rock fragments in a semi-consolidated sericitic matrix. In places the sericite is bright green in colour. This sequence develops at 182.0, into a series of longer silicic fragments (up to 0.5m wide) between zones of puggy, fine, unconsolidated clay (up to 1.0m wide). At 187.4, to the end of the unit, the crushed core is weakly sulphidic, with fine disseminated pyrite in the siliceous clasts. Overall sulphide content is 1-2% by vol.	T9549	188.6	189.8	100	0.030	0.5	39	135	135	160	6
				189.8-190.7 WEAKLY MINERALISED AND ALTERED COARSE VOLCANICLASTICS.											
189.8	190.7	0.9	100	Pale green-grey moderately altered but weakly mineralised coarse grained volcaniclastics. Fine disseminated pyrite up to 2% by volume is found in this unit which is altered to a quartz-sericite-chlorite assemblage. A few quartz veinlets occur, and the core is weakly fractured.	T9550	189.8	190.7	100	0.010	0.5	6	40	490	915	<1
				190.7-227.6 VARIABLY MINERALISED, SILICIFIED AND FRACTURED, COARSE GRAINED VOLCANICLASTICS.											
190.7	199.7	9.0	100	Grey-green-pink, variably but strongly mineralised coarse grained volcaniclastics. The core is altered to a quartz-sericite-pyrite assemblage, with elongate siliceous lava fragments in a sericite-pyrite matrix. The rock is strongly foliated at 50°CA and is moderately fractured, although several highly fractured and puggy zones are present. A few minor quartz veinlets and thin silicified zones occur. The sulphides occur as fine disseminated pyrite scattered throughout with a few small blebs of base metal sulphides, mainly chalcopyrite. The overall sulphide content is 10-15% by vol. At 192.2m a 1.2m lens of weakly silicified, unmineralised moderately altered rock occurs.	T9551	190.7	191.7	100	0.210	5.0	35	60	335	553	1
					2		192.7	"	0.100	1.0	19	30	80	65	3
					3		193.7	"	0.050	<0.5	13	95	35	35	<1
					4		194.7	"	0.180	1.0	42	145	105	40	5
					5	194.7	195.7	"	0.970	5.5	"	175	240	65	6
					6		196.7	"	0.230	4.0	66	250	140	115	11
					7		197.7	"	0.240	5.5	42	90	"	192	5
					8		198.7	"	0.040	0.5	31	45	100	90	10
					T9552	198.7	199.7	"	0.510	21.0	44	40	125	60	5

GOLD FIELDS EXPLORATION PTY. LIMITED

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PROJECT: TYNDALL

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: HP 27

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA (all ppm) Sample No.	From	To	Rec. %	Au	Ag	As	Cu	Pb	Zn	Bi
199.7	203.6	3.9	100	Very strongly silicified, coarse volcaniclastics. The core is moderately											
				sericitic in a few places, otherwise the only alteration is silicification.	T9560	199.7	200.7	100	<0.008	<0.5	10	10	30	150	3
				Minor hematite causes the core to have a pink colour. The											
				core is weakly sulphidic over the top 1.5m, which is more sericitic,											
				more fractured and white in colour. Overall the core is moderately											
				fractured.											
					T9562	203.5	204.5	100	<0.008	<0.5	16	30	80	175	3
203.6	213.5	9.9	100	Pink-grey very coarse grained volcaniclastics consisting of quartz	3		205.5	"	"	0.5	17	25	45	160	"
				porphyritic felsic lava fragments - siliceous and hematitic in	4		206.5	"	0.010	<0.5	42	15	40	180	2
				a fine chlorite-silica matrix. Overall the core is weakly altered,	5		207.5	"	<0.008	0.5	19	30	20	100	3
				weakly fractured. Unfoliated and contains irregular quartz	6		208.5	"	0.020	<0.5	16	15	30	75	<1
				veinlets. The overall sulphide content is low, around 2-3% occurring	7		209.5	"	0.010	"	15	20	25	70	2
				as disseminated fine grained pyrite.	8		210.5	"	0.130	2.5	16	25	40	60	<1
				Below 211.5 to the end of the unit, the sulphide level increases,	9		211.5	"	0.030	0.5	17	15	"	75	5
				grading into the unit below.	0		212.5	"	"	<0.5	"	25	"	60	<1
					T9571	212.5	213.5	"	0.040	0.5	16	30	35	70	3
213.5	215.5	2.0	100	Strongly mineralised coarse grained volcaniclastics. The same											
				original rock type as in the previous units, is here strongly altered											
				to a quartz-sericite-sulphide assemblage. Minor blebs of coarse	T9572	213.5	214.5	100	0.400	4.0	45	330	120	175	5
				pyrite and chalcopyrite occur rarely in an overall sulphide content	3	214.5	215.5	"	0.360	1.0	23	710	80	65	3
				of around 10% by vol. The core is weakly fractured and foliated.											
215.5	217.5	2.0	100	Very strongly fractured, strongly sericitic volcaniclastics with	T9574	215.5	216.5	100	0.020	<0.5	11	325	35	85	<1
				a few blocks of highly silicified rock. A fractured zone of highly	5	216.5	217.5	"	0.030	-	12	200	40	30	-
				shattered and sheared material. Weakly mineralised.											
217.5	220.6	3.1	100	Pink-green-grey, highly silicified and sericitic coarse volcaniclastics.											
				Weakly-moderately fractured and strongly foliated at 45°CA,											
				with several strongly fractured zones. The rock is a very coarse											
				volcanic breccia with numerous siliceous fragments in a pale	T9576	218.6	219.6	100	0.540	1.5	12	830	30	30	9
				green sericitic matrix. The top 1.0m of this unit is particularly											
				silicified and between 218.6 and 219.6, small (5cm) lenses of											
				silicified rock contains blebs of chalcopyrite.											

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GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE LOG AND ASSAY DATA

PROJECT: TYNDALL HOLE NUMBER: HP 27 Page: 5.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	Sample No.	From	To	Rec. %	Au	Ag	As	Cu	Pb	Zn	Bi
									ASSAY DATA (all ppm)						
220.6	227.6	7.0	100	Strongly mineralised, grey, coarse grained volcaniclastics. A	T9577	220·6	221·6	100	0·300	1·5	27	245	125	110	13
				coarse grained volcanic breccia containing siliceous felsic lava	8		222·6	"	0·080	<0·5	34	760	220	160	3
				fragments in a fine grained matrix now altered to a silica-sericite-	9		223·6	"	0·120	1·5	40	1300	550	185	9
				sulphide assemblage. The core is moderately fractured with	80		224·6	"	0·190	4·0	74	2700	955	560	12
				a few highly fractured zones and is weakly foliated at 45°CA.	2		225·6	"	0·210	2·5	97	2050	510	350	10
				Quartz veins are rare. Most of the 15-20% sulphide occurs	3		226·6	"	0·390	4·0	230	3700	1700	1150	15
				as fine grained disseminated pyrite, but small massive pyrite	T9584	226·6	227·6	"	3·880	7·0	63	2300	335	230	17
				blebs are common throughout the unit. Coarse chalcopyrite											
				blebs are also developed, at 22.8, 223.3, 225.6 and 227.5.											
				Between 223.5 and 224.7, a sericitic, highly fractured zone											
				of completely shattered and sheared rock occurs.											
				227.6-269.0 WEAKLY ALTERED COARSE GRAINED GRITTY VOLCANICLASTICS.											
227.6	230.5	2.9	100	Strongly fractured, pale pink-grey coarse grained volcaniclastic											
				breccia. This unit is moderately altered and very weakly mineralised											
				with a chlorite-sericite-silica assemblage developed. A strong											
				foliation is developed and the core is strongly fractured to a	T9585	227·6	228·6	100	1·250	5·0	19	4300	130	165	13
				series of crumbly unconsolidated zones with minor unfractured	6		229·6	"	0·020	<0·5	12	40	30	75	<1
				sections up to 0.4m long. Around 1-2% pyrite occurs as fine	T9587	229·6	230·6	"	<0·008	"	"	24	40	50	6
				disseminations in the breccia groundmass.											
230.5	245.7	15.2	100	Weakly mineralised and altered coarse grained volcaniclastics.	T9588	230·6	231·6	100	<0·008	<0·5	19	25	25	65	<1
				The core consists of coarse pink and white elongate felsic lava											
				fragments, silicified in a fine dark green chloritic matrix. The											
				unit is unfractured and moderately foliated at 45°CA. Minor											
				irregular quartz veins occur, and the rock is overall weakly	T9589	237·0	238·0	100	0·150	3·5	16	20	20	110	<1
				altered and contains minor patches where disseminated pyrite	90		239·0	"	0·050	1·0	"	15	"	95	"
				up to 1% by vol. is present.	1		240·0	"	0·030	<0·5	7	<5	10	65	"
				Between 237.0 and the end of the sequence, silicified zones	2		241·0	"	0·070	"	12	20	5	60	"
				of increased alteration with associated increased sulphide development	3		242·0	"	0·020	"	7	10	<5	80	"
				(up to 5-10%) occur, usually about 0.3m wide.	4		243·0	"	0·050	"	12	15	10	75	2
					5		244·0	"	0·020	"	9	20	<5	90	<1
					6		245·0	"	<0·008	"	3	115	"	65	"
					T9597	245·0	246·0	"	"	"	1	15	"	100	"

GOLD FIELDS EXPLORATION PTY. LIMITED

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DEV. PRESS

PROJECT: TYNDALL

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: HP 27 Page: 6.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
245.7	269.0	23.3	100	Pink-dark green/grey coarse grained gritty volcaniclastics. Similar to the unit above except that it is unmineralised and unaltered (very weakly altered), and contains numerous grit-sized felsic (pink) lava fragments. The sequence is metamorphosed to a chlorite-hematite-quartz assemblage with rare quartz veins. The core is unfractured and weakly foliated at 45°CA. Minor pale coloured sericitic lenses up to 0.5m wide are present.
				ENDO OF HOLE 269.0m

ASSAY DATA (all ppm)

Sample No.	From	To	Rec. %	Au	Ag	As	Cu	Pb	Zn	Bi
T9599	246·0	247·0	100							