102143

HOLE NO. : HP 44
STATE : TAS

GOLD FIELDS EXPLORATION PTY. LIMITED
DRILL CORE RECORD

PROJECT	TYNDALL
DESIGNED BY	AJC
LOGGED BY	AJC
COMMENCED	18-3-88
COMPLETED	5-4-88

PURPOSE

To test for rock conditions around the proposed Henty Decline.

LOG SUMMARY / GENERAL COMMENTS

A weakly-moderately developed mineralized zone was found disrupted by the Henty Fault, with a deeper sequence of Jukes Breccia surrounding a lens of Newton Creek Sandstone. The latter consists (unusually) of interbedded shales and gritty volcaniclastics. The deepest section of Jukes Breccia (77.7-178.3) is unfractured.

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	5364144.0
EASTING	380194.5
R.L.	2605.5
GRID	AMG
LENGTH	178.3

HOLE CONDITION

SIZE	
Hole Size	Depth
HW	0.0-9.0
HQ	9.0-45.0
NQ	45.0-178.3

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost
0.0	17.0	66
17.0	31.0	17

POOR GROUND CONDITION ZONES		
From	To	Condition
0.0	17.0	Henty Fault-crushed zone
36.0	77.7	Numerous highly fractured
		shale bands occur in this
		Newton Creek Sandstone
		sequence.

HOLE CONDITIONS AFTER COMPLETION

All HW casing removed.
The HQ casing parted at 15.0m, leaving 30m in the hole from 15-45m.
The NQ was removed and a collar marker is in place.
Hole making water at 51.5m.

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	090	48.0	0.0	15.0	15.0	11.1	2594.4	10.0	10.0
30.0	090	49.0	15.0	45.0	30.0	22.6	2571.7	19.7	29.7
60.0	090	45.0	45.0	75.0	30.0	21.2	2550.5	21.2	50.9
90.0	089	40.0	75.0	105.0	30.0	19.3	2531.2	23.0	73.9
120.0	088	37.0	105.0	135.0	30.0	18.1	2513.2	24.0	97.9
150.0	089	35.5	135.0	164.0	29.0	16.8	2496.3	23.6	121.5
178.0	089	34.0	164.0	178.3	14.3	8.0	2488.3	11.9	133.3

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

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DRILL CORE LOG AND ASSAY DATA

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INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0.0	17.0	5.8	34	HENTY FAULT - MINERALISED ZONE. SILICIFIED AND PYRITIC				
				VOLCANIC ROCK FRAGMENTS OCCUR IN A PUGGY, SEMI-CONSOLIDAT-				
				ED SULPHIDIC CLAY.				
17.0	31.0	11.6	83	WEAKLY-MODERATELY SULPHIDIC MEDIUM GRAINED				
				VOLCANICLASTICS. STRONGLY ALTERED.				
31.0	36.0	4.6	92	JUKES BRECCIA. UNMINERALISED, MODERATELY ALTERED AND				
				FRACTURED GRITTY VOLCANICLASTICS.				
36.0	77.7	41.7	100	NEWTON CREEK SANDSTONE. INTERBEDDED FINE GRAINED				
				GREY SHALES AND GRITTY VOLCANICLASTICS. STRONGLY				
				FRACTURED IN PLACES.				
77.7	178.3	100.6	100	JUKES BRECCIA. COARSE-MEDIUM GRAINED VOLCANICLASTICS;				
				CLAST RICH WITH POORLY SORTED, SUB-ROUNDED VOLCANIC				
				FRAGMENTS, AND A SMALL LENS OF CARBONATE. THE ROCK IS				
				MODERATELY ALTERED WITH DEPTH AND UNFRACTURED.				
				DETAILED LOG.				
				0.0-17.0 MINERALISED ZONE CUT BY THE HENTY FAULT.				
				PUGGY PYRITIC CLAYS AND ROCK FRAGMENTS.				
0.0	10.0			Tricone, no core recovered.				
10.0	17.0	2.4	34	Pale green-grey puggy unconsolidated clays and siliceous rock fragments.				
				Strongly sericitic, weakly pyritic clay loosely holds numerous angular				
				siliceous volcaniclastic clasts. Over the top 4.9m of this unit, the clays				
				are all washed - pebble sized fragments remain.				
				17.0 - 31.0 WEAKLY DEVELOPED MINERALISATION. MEDIUM				
				GRAINED VOLCANICLASTICS, STRONGLY ALTERED, MODERATELY				
				PYRITIC.				

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DRILL CORE LOG AND ASSAY DATA

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INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA			
From	To	m	%		Sample No.	From	To	Rec. %
17.0	31.0	11.6	83	Strongly altered, sericitic-silicified-weakly pyritic medium grained volcaniclastics. Numerous small quartz and sericite veinlets cut the core which is moderately-strongly fractured and unfoliated. The silica is pervasively developed as a very fine grained flooding, and the pyrite occurs as very fine disseminations with the silica. Overall the sulphide content is around 3-5% by vol. The top 8.4m of this sequence is particularly strongly fractured.				
				31.0-36.0 MODERATELY ALTERED GRITTY VOLCANICLASTICS MODERATELY FRACTURED.				
31.0	36.0	4.6	92	Moderately altered, weakly foliated gritty volcaniclastics. Elongate, grit-sized, poorly sorted volcanic fragments occur in a fine grained matrix. Overall the rock is weakly-moderately sericitic with no sulphides or silica alteration developed. The core is moderately fractured and foliated at 65° CA. A few small rare metamorphic quartz veins cut the sequence. Between 31.0 and 32.9 the core is strongly fractured and sericitic.				
				36.0-77.7 INTERBEDDED GRITTY VOLCANICLASTICS AND FINE GRAINED GREY SHALES.				
36.0	77.7	41.7	100	Interbedded grey fine grained shales and gritty volcaniclastics. The beds or lenses are 5-10m thick. Irregular bedded contacts occur between the two lithologies. The shales are very fine grained, fissile, strongly fractured and often strongly veined with bedding/foliation parallel quartz and sericite veinlets. The foliation-fracturing runs at 45-70°CA. The shales are weakly chloritic-sericitic. The volcaniclastics are weakly altered and range from coarse sandstones to grits with the occasional large (up to 5-10cm wide) felsic lava fragments. Most of the clasts present are volcanics - often hematitic. The volcaniclastics are weakly to unfractured and are only cut by rare metamorphic quartz veins. They are also only very weakly foliated at around 50°CA. A few irregular carbonate				

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INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA													
From	To	m	%		Sample No.	From	To	Rec. %										
				veins and rare blebs of pyrite occur.														
				Shales occur between:														
				36.0-43.2, with 36.0-37.5 highly fractured,														
				51.3-53.7, hole makes water here,														
				66.4-72.7, with 66.4-67.4 highly fractured and														
				76.0-77.7 with 77.5-77.7 highly fractured.														
				The volcaniclastics occur between these intervals.														
				77.7-178.3 COARSE-MEDIUM GRAINED VOLCANICLASTICS WITH A MINOR LENS OF CARBONATE. MODERATELY ALTERED AT DEPTH.													
77.7	178.3	100.6	100	Grey medium grained to coarse grained volcaniclastics. Weakly and occasionally moderately altered to silica-sericite, the core is unfractured. Numerous volcanic clasts, mainly hematitic felsic lavas, occur poorly sorted throughout the fine grained matrix. The clasts are sub-rounded and average around 1.0cm across with several rare 5-10cm clasts. The unit is matrix poor, clast-rich, with lenses of finer grained, sandstones. The sequence is unveined and is weakly foliated at 50°CA.													
				Between 108.0 and 114.0, the rock is moderately altered with weak sericite and a few disseminated grains of pyrite.														
				At 104.0 an intergrowth of coarse carbonate occurs and between 116.2 and 118.6 a massive lens of white carbonate occurs. This has a few stylolites but is generally massive.														
				Below this calcareous unit, the rock contains several silicified zones, 10-20cm across.														
				At 121.7 a metamorphic vein contains coarse chalcopyrite. A similar coarse chalcopyrite sweat-out occurs at 130.2.														
				Between 126.0 and 130.5 the core is strongly silicified and hematitic, producing a hard white-purple rock. It is also quartz phyric, and may represent a high level intrusive.														
				Below this the rock is moderately altered, weakly silicified and contains around 1% pyrite by vol. as disseminated grains.														
				Between 139.4 and 140.0 a patch of moderately sulphidic rock occurs with matrix pyrite up to 5% by vol.														

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INTERVAL		RECOVERY		DESCRIPTION
From	To	m	%	
				Between 145.0 and 158.0 the core is moderately fractured, and
				between 151.0 and 157.0 the core is strongly fractured and moderately
				sericitic.
				From 158.0 to the end of the hole, the rock is unfractured,
				unfoliated and quartz phyric. Chlorite veins become common, cutting
				through the sequence irregularly.
				END OF HOLE 178.3

ASSAY DATA			
Sample No.	From	To	Rec. %