102099

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

HOLE NO.: HP35
STATE : TAS

DLV. PRESS

PROJECT	TYNDALL
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	1.10.1987
COMPLETED	19.10.1987

PURPOSE

To test the Henty mineralised zone in a 50m square pattern around the HP4 intersection.

LOG SUMMARY

GENERAL COMMENTS

The mineralised zone begins 12.0m (downhole) within the Henty Fault, extending out to 23.3m downhole from the Fault footwall. A 6.9m section in the footwall end of the mineralised zone contains visible chalcopyrite mineralisation. Significant assays are recorded below.

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	5364051.9
EASTING	380 076.5
R.L.	2579.1
GRID	AMG
LENGTH	174.0

HOLE CONDITION

SIZE	
Hole Size	Depth
HW	0.0-9.0
HQ	9.0-174.0

SIGNIFICANT CORE LOSS INTERVALS		
From	To	% Lost
0.0	17.1	43

POOR GROUND CONDITION ZONES		
From	To	Condition
0.0	17.1	Weathered hanging wall.
100.0	120.5	Henty Fault. Strongly fractured
		and sheared, sericitic mylonitic
		volcanics.

HOLE CONDITIONS AFTER COMPLETION

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	68.0	0.0	15.0	15.0	13.9	2565.2	5.6	5.6
30.0	086	67.0	15.0	45.0	30.0	27.6	2537.6	11.7	17.3
60.0	084	63.5	45.0	75.0	30.0	26.9	2510.7	13.4	30.7
90.0	084	61.5	75.0	105.0	30.0	26.3	2484.4	14.3	45.0
120.0	084	60.5	105.0	135.0	30.0	26.1	2458.3	14.8	59.8
150.0	084	60.0	135.0	161.5	26.5	23.0	2435.3	13.3	73.1
173.0	083	59.0	161.5	174.0	12.5	10.7	2424.6	6.4	79.5

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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PROJECT: TYNDALL

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				PGI
0.0	100.0	92.1	92	MEDIUM GRAINED VOLCANICLASTICS WITH MINOR LENSES OF FELSIC LAVAS CUT BY A SERIES OF THIN MAFIC DYKES.		0.0	17.1	HWLT
						17.1	100.0	HWLW
00.0	108.5	8.5	100	HENTY FAULT. SEMI-CONSOLIDATED ROCK CHIPS AND SERICITIC CLAYS IN A COMPLETELY FRACTURED CRUSHED ZONE.		100.0	108.5	FTCS
108.5	120.5	12.0	100	STRONGLY SULPHIDIC AND ALTERED VOLCANICS, STRONGLY FRACTURED AND DISRUPTED BY THE HENTY FAULT.		108.5	120.5	FTMZ
120.5	143.8	23.3	100	VARIABLY BUT GENERALLY STRONGLY ALTERED AND MINERALISED MEDIUM GRAINED VOLCANICLASTICS WITH MINOR COARSE AND FINE GRAINED LENSES. CHALCOPYRITE OCCURS IN THE MINERALISED ZONE AT DEPTH.		120.5	143.8	FWMZ
143.8	174.0	30.2	100	WEAKLY ALTERED GRITTY VOLCANICLASTICS, VERY COARSE GRAINED BRECCIO-CONGLOMERATES AND FINE GRAINED EPICLASTICS.		143.8	174.0	FWAL
				DETAILED LOG				
				0.0-100.0 MEDIUM GRAINED VOLCANICLASTICS WITH LENSES OF FELSIC LAVAS CUT BY A SERIES OF MAFIC DYKES.				
0.0	3.0			Tricone, no core recovered.				
3.0	17.1	8.0	57	Brown-pink, strongly weathered coarse volcaniclastics. The core is strongly fractured with pervasive limonite developed.				
17.1	100.0	82.4	99	Green-pink medium grained volcaniclastics with minor lenses of pink fine grained felsic lavas, up to 2.0m across. This sequence is intruded by a series of thin (generally around 0.2-0.4m wide) fine grained chloritic mafic dykes. The rock is metamorphosed to a silica-chlorite-hematite assemblage. The mafic dykes are sericitic in places and are				

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DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: HP35 Page: 2

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	Sample No.	From	To	Rec. %	Au	Ag	As	Cu	Pb	Zn	Bi
									ASSAY DATA (all ppm)						
				also often cut by the irregular quartz veinlets. The felsic lavas											
				(usually the thicker lenses) often contain thick, white-metamorphic											
				quartz veins. The core is moderately foliated at 50°CA and is very											
				weakly fractured, with a few sericitic, highly fractured zones.											
				At 95.6, the rock is more altered, being sericitic and siliceous											
				as well as being strongly fractured. This continues down into the											
				unit below.											
				100.0-108.5 HENTY FAULT. A CRUSHED ZONE OF SERICITIC											
				CLAYS AND ROCK CHIPS. STRONGLY ALTERED.	T4948	100·5	101·5	100	<0·008	0·5	17	30	100	170	<1
					9		102·5	"	"	<0·5	29	40	510	1400	2
100.0	108.5	8.5	100	Grey-lime green, semi-consolidated clays and fractured rock fragments.	50		103·5	"	0·010	2·0	43	30	2200	1260	10
				A large crushed zone with grit sized siliceous rock chips in a grey	1		104·5	"	<0·008	1·5	"	20	300	180	<1
				sericitic (unconsolidated) clay matrix. Small patches (0.1-0.2m thick,	2		105·5	"	0·070	1·0	28	110	10	140	5
				1-2m apart) of sulphidic clays are also present; the overall sulphide	3		106·5	"	0·030	3·0	23	50	<5	135	3
				content is around 0-1%.	4		107·5	"	<0·008	2·5	33	25	20	180	2
				At 104.2 down to 108.5, the clay is a bright green batcheloritic	T4955	107·5	108·5	"	"	2·0	42	65	65	300	<1
				sericite.											
				108.5-120.5 STRONGLY ALTERED AND SULPHIDIC VOLCANICS											
				WITHIN THE HENTY FAULT.	T4956	108·5	109·5	100	1·180	9·0	99	750	620	255	<1
					7		110·5	"	0·030	2·0	46	80	110	50	21
108.5	120.5	12.0	100	Dark grey strongly sulphidic, strongly fractured and foliated semi-	8		111·5	"	"	6·0	69	140	560	90	12
				consolidated sericitic volcanics. This unit is part of the fault zone	9		112·5	"	0·055	7·0	240	1050	13700	15700	10
				above, but is considerably more sulphidic, around 20% by vol.	60		113·5	"	0·030	2·0	120	405	1800	2050	6
				Short (0.1-0.2m) lengths of core are basically unfractured apart from	1		114·5	"	<0·008	"	88	155	165	140	10
				sericitic veinlets, between narrow (5-10cm) zones of unconsolidated	2		115·5	"	0·060	5·0	82	900	225	120	6
				sericitic clays and rock chips. Fine pyrite is dissemated thickly through	3		116·5	"	0·030	"	98	170	75	45	21
				the clayey matrix.	4		117·5	"	<0·008	2·0	38	120	15	70	6
				A number of wider, completely fractured zones also occur at	5		118·5	"	"	2·5	35	70	<5	65	5
				109.3, 117.0 and 120.0. Below 117.5 the core is only weakly	6		119·5	"	0·030	4·5	45	60	5	"	4
				sulphidic.	T4967	119·5	120·5	"	<0·008	<0·5	23	100	<5	85	1
				120.5-143.8 VARIABLY BUT GENERALLY STRONGLY MINERALISED	T4968	120·5	121·5	100	<0·008	2·5	18	15	<5	40	2
				AND ALTERED MEDIUM GRAINED VOLCANICLASTICS.	9		122·5	"	"	1·0	12	25	"	45	<1
					T4971		123·5	"	"	1·5	15	40	"	65	2

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PROJECT:

DRILL CORE LOG AND ASSAY DATA

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INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	Sample No.	From	To	Rec. %	Au	Ag	As	Cu	Pb	Zn	Bi
									ASSAY DATA (all ppm)						
120.5	136.9	16.4	100	Grey medium-coarse grained, strongly altered volcaniclastics.	T4972	123.5	124.5	100	0.030	<0.5	13	10	<5	85	2
				Coarse grained fragments of pink felsic lava occur in a fine grained	3		125.5	"	<0.008	1.0	12	20	50	215	1
				matrix. This is then altered to a quartz-sericite-chlorite-hematite-	4		126.5	"	"	2.0	16	"	10	155	7
				pyrite assemblage. A few lenses of fine grained epiclastics are	5		127.5	"	"	"	18	15	<5	65	4
				present and the rock is very weakly fractured, unfoliated and unveined.	6		128.5	"	0.020	1.0	27	20	"	45	5
				The pyrite occurs as fine grained disseminations, around 3-4% by vol.	7		129.5	"	<0.008	<0.5	19	15	"	50	7
					8		130.5	"	"	2.0	21	10	"	55	9
136.9	143.8	6.9	100	Dark grey, strongly altered and mineralised medium-fine grained	9		131.5	"	0.010	1.5	27	15	"	85	4
				volcaniclastics. Sub rounded, poorly sorted, silicified rock fragments	80		132.5	"	<0.008	4.5	32	"	"	65	4
				(lavas?) occur in a fine matrix of sericite, silica and pyrite.	1		133.5	"	0.010	1.0	27	"	"	95	1
				The overall sulphide content is high, around 15%, with coarse	2		134.5	"	"	<0.5	22	"	"	100	4
				splashes of intergrown pyrite and chalcopyrite commonly developed.	3		135.5	"	0.020	0.5	19	"	"	75	41
				A weak silicification overprint is developed through the unit.	4		136.9	"	0.030	1.5	24	30	"	185	3
				Between 141.5 and the end of the sequence (143.8), the matrix	5		137.9	"	0.090	4.0	86	35	90	265	8
				of the volcaniclastics is very strongly sulphidic (around 25-30% overall)	6		138.9	"	0.140	3.5	91	145	80	275	"
				and contains carbonate veinlets and thin lenses. Also, several inter-	7		139.9	"	0.130	1.5	160	130	105	105	11
				bedded, weakly altered, unmineralised gritty volcaniclastics beds,	8		140.9	"	0.090	1.0	90	370	45	130	1
				0.1-0.3m thick, are present.	9		141.9	"	0.100	"	"	335	1100	655	4
					90		142.9	"	0.030	1.5	34	90	15	165	"
				143.8-174.0 WEAKLY ALTERED VOLCANICLASTICS, VERY COARSE	T4991	142.9	143.9	"	0.090	2.0	76	70	40	255	"
				BRECCIO-CONGLOMERATES AND FINE EPICLASTICS.											
143.8	174.0	30.2	100	Weakly-moderately altered pink-grey volcaniclastics. A variety of											
				rock types are present - all irregularly mixed. Very coarse grained											
				breccio-conglomerates with large (up to 10cm across) red, quartz											
				porphyritic, felsic lava clasts are present, as are gritty, medium											
				grained volcaniclastics and fine grained epiclastics. The core is very											
				weakly fractured and foliated. The sequence is metamorphosed to a											
				quartz-hematite-chlorite assemblage, with patches of silicification											
				and pale green sericitisation occasionally developed. A few irregular											
				quartz veinlets are also present. The rock is unsulphidic.											
				END OF HOLE 174.0m.											