102152

HOLE NO. : HP46
STATE : TAS

ULV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED
DRILL CORE RECORD

PROJECT	HENTY
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	27th April 1988
COMPLETED	9th May 1988

PURPOSE

To test for rock conditions around the Proposed Henty Decline.

LOG SUMMARY

GENERAL COMMENTS

This hole was an attempt to deepen HP29, however the hole failed to travel down the original hole, so a new hole was re-started with a new bearing and dip. HP46 encountered a weakly developed mineralised zone beneath the Henty Fault and struck Quartz porphyry at 197.3m.

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	5364483.3
EASTING	380247.0
R.L.	2624.9
GRID	AMG
LENGTH	217.4

HOLE CONDITION

SIZE Hole Size	SIZE Depth
HQ	0-9m
NQ	9.0-217.4

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost
9.0	12.9	90

POOR GROUND CONDITION ZONES From	To	Condition
0.0	12.9	Henty Fault

HOLE CONDITIONS AFTER COMPLETION

All rods and casing removed from hole.

At 19.0 - hole making water.
At 82.0 - hole lost water.
At 210.0- hole making water.

The HP46 collar was surveyed from the HP29 collar (5364486.0N, 380247.2E) with a tape and compass: - Bearing 185AMG; Distance 2-7m.

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

SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D.Sin.Dip	R.L.	HORIZONTAL D.Cos.Dip	Prog.Total	SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D.Sin.Dip	R.L.	HORIZONTAL D.Cos.Dip	Prog.Total
0.0	112.0	45.0	0.0	15.0	15.0	10.6	2614.3	10.6	10.6										
30.0	108.0	44.5	15.0	45.0	30.0	21.0	2593.3	21.4	32.0										
60.0	107.0	43.5	45.0	75.0	30.0	20.7	2572.6	21.8	53.8										
90.0	107.0	42.5	75.0	105.0	30.0	20.3	2552.3	22.1	75.9										
120.0	107.0	41.5	105.0	135.0	30.0	19.9	2532.5	22.5	98.4										
150.0	107.0	40.5	135.0	165.0	30.0	19.5	2513.0	22.8	121.2										
180.0	107.0	40.0	165.0	195.0	30.0	19.3	2493.7	23.0	144.1										
210.0	107.0	38.5	195.0	217.4	22.4	13.9	2479.8	17.5	161.7										

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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. %
				SUMMARISED LOG				
0.0	12.9	0.4		HENTY FAULT. POOR CORE RECOVERY OCCURS, LEAVING ONLY QUARTZ PEBBLES AND CLAYEY MYLONITES.				
12.9	19.6	6.3	94	MODERATELY MINERALISED AND STRONGLY ALTERED COARSE GRAINED VOLCANICLASTICS. BASE METAL SULPHIDES ARE RARE AND PYRITE IS PERVASIVE THROUGHOUT THE ROCK MATRIX.				
19.6	186.3	165.7	99	COARSE GRAINED VOCANICLASTICS WITH MINOR FINE GRAINED COARSE SAND SIZED EPICLASTICS. GENERALLY MODERATELY STRONGLY ALTERED WITH SEVERAL HIGHLY SILICIFIED ZONES. THE CORE IS MODERATELY WEAKLY FRACTURED.				
186.3	217.4	31.1	100	QUARTZ PHYRIC LAVA AND VERY COARSE GRAINED PYROCLASTIC BRECCIA. UNALTERED AND UNFRACTURED WITH NUMEROUS SMALL QUARTZ PHENOCRYSTS.				
				DETAILED LOG				
				0.0-12.9 HENTY FAULT. COMPLETELY WASHED ROCK FRAGMENTS OF QUARTZ - NOT IN SITU. NO CORE REMAINS.				
0.0	9.0			Tricone, no core recovered.				
9.0	12.9	0.4	10	Wash quartz pebbles and clayey Mylonitic fragments from places higher up the hole.				
				12.9-19.6 MODERATELY MINERALISED AND STRONGLY ALTERED COARSE GRAINED VOLCANICLASTICS.				
12.9	19.6	6.3	94	Pale green-grey, strongly altered and moderately mineralised medium-coarse grained volcaniclastics. The core consists of silicified felsic lava clasts in a pyritic-sericitic matrix. A few silicified zones				

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No	From	To	Rec. %
				occur. Overall the sulphide content is 5-10% by vol. The rock				
				is strongly fractured and very weakly foliated. Base metal sulphides				
				are rare, and the unit is not veined.				
				19.6-186.3 COARSE GRAINED VOLCANICLASTICS WITH MINOR				
				EPICLASTICS. MODERATELY STRONGLY ALTERED.				
19.6	27.0	7.3	99	White-pale grey, intensely silicified volcaniclastics. This unit is				
				very strongly silica (ultra-fine grained) flooded, obscuring all previous				
				textures. It has very abrupt contacts above and below. Numerous				
				small fractures through the rock have been later quartz filled.				
				The core is moderately fractured, with a very strongly fractured				
				zone at 22.6-23.4.				
27.0	86.0	58.3	98	Pink-grey, very coarse grained volcaniclastics. Moderately strongly				
				altered to a silica-sericite (-pyrite) assemblage. The core consists				
				of large (up to 5-10cm wide) pink, felsic lava clasts in a dark green-grey				
				fine grained matrix. The unit is very poorly sorted and is clast rich.				
				In places, the lava fragments are infact auto-brecciated flows.				
				Sericite and pyrite occur throughout the matrix, the former often				
				also as sub-parallel veinlets, while the pyrite is very finely disseminated				
				at around 1% of the rock. The core is weakly foliated at ~45°CA				
				and is weakly fractured and veined (quartz). Overall the rock				
				is only weakly silicified.				
				Strongly fractured zones occur between 31.0-34.5, 36.4-37.4,				
				45.0-47.8, and 83.0-84.0.				
				A moderately strongly pyritic band occurs between 52.0-52.8,				
				with fine pyrite strongly developed in the matrix. Below this,				
				the core becomes more silicified and between 55.0 and 64.0, the				
				rock is white and intensely silicified.				
				This unit grades into the one below.				
86.0	105.6	19.4	99	Pale pink-green-grey strongly silicified, weakly quartz phyric coarse				
				volcaniclastics - autobrecciated lavas. Fine grained quartz phyric				
				felsic lavas occur in a fine siliceous-sericitic matrix. The silica				
				and sericite form a pervasive alteration, with veinlets (irregular)				

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From	To	m	%		Sample No.	From	To	Rec. %
				and blebs of sulphides; particulary base metal sulphides. Overall				
				content is low however, ~ 2-3% by vol. The core is unfoliated				
				and moderately fractured, with a strongly fractured zone on the				
				base of the unit, between 102.0-105.6. A sharp contact occurs				
				with the unit below.				
105.6	108.3	2.7	100	Dark grey, strongly sulphidic coarse grained volcaniclastics. This				
				rock contains a few large (2-3cm) silicified-sericite, subrounded				
				clasts in a fine pyrite-sericite matrix. The sulphide content is				
				high, semi-massive, around 15-20%. A few coarse chalcopyrite				
				blebs are also present. The rock is very clast poor, is weakly				
				fractured and foliated, and contains a few rare quartz veinlets.				
				The contact with unit below is gradational, through a fine grained				
				epiclastic.				
108.3	129.0	20.7	100	Pink-red-grey, very coarse grained volcaniclastics. Large (5-10cm)				
				pink felsic lava clasts occur abundantly throughout a fine chloritic				
				matrix. The rock is weakly quartz phyric and in many places is				
				an autobrecciated lava. In general the core is weakly altered				
				(sulphides are rare), weakly fractured, unveined and very weakly				
				foliated.				
129.0	151.2	22.2	100	Pale pink-pale grey-white, very strongly silicified coarse grained				
				volcaniclastics and autobrecciated lavas. This unit is the same				
				rock as above, but has a very well developed siliceous overprint.				
				Very fine grained silica has pervasively flooded the rock, and quartz				
				veinlets irregularly cut the sequence, which is weakly quartz phyric.				
				A few coarse blebs of sulphide, pyrite and base metals, occur with this				
				silification. The core is weakly fractured and unfoliated. The				
				silification has not obscured the original textures. A moderately				
				fractured zone occurs between 147.0-151.2. A sharp contact occurs				
				with the unit below.				
151.2	166.7	15.5	100	Interbedded coarse, pink-grey volcaniclastics as above, and fine				
				grained pale brown-grey sandstone. In general the latter are moderately				
				fractured with a few thin coarse sandstone lenses and irregular quartz				

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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. %
				veinlets. The volcaniclastics are as described above (unsilicified).				
				Between 151.2 and 153.2, an irregular metamorphic quartz				
				vein occurs within a sandstone unit. This sequence is strongly fractured.				
				At 158.2, the sandstone unit ends and the volcaniclastics occur,				
				with the coarse sandstone re-occuring at 161.7.				
166.7	177.9	11.2	100	Pink-pale green-grey coarse medium grained volcaniclastics.				
				This unit is characterised by abrupt changes in clast size:- breccias				
				are mixed with grits and fine shaley units over short distances				
				(10-100cm). The core is moderately strongly altered with sericite				
				well developed and silicification weakly developed in places.				
				The rock is also quartz and sericite veined, and is moderately				
				fractured.				
				A strongly fractured zone occurs 172.3-173.7.				
				At 176.5, a pale green sericite occurs pervasively through				
				the rock, which is fine grained, fractured unit from 177.2-177.9.				
177.9	178.3	0.4	100	Fault zone. Semi-consolidated pug and rock fragments. Dark				
				clay seams occur with various sized rock fragments in a soft clay				
				matrix.				
178.3	186.3	8.0	100	Pink-grey coarse grained volcaniclastics. Large elongate pink felsic				
				volcanic (lava) fragments occur in fine matrix which is weakly				
				pyritic between 181.5-182.7. The unit is very weakly fractured				
				and becomes lava-rich with depth to 186.2 where a small fault				
				zone occurs. Small rock fragments occur in an unconsolidated				
				clay pug around 5-10cm wide.				
				186.3-217.4 QUARTZ PHYRIC LAVA AND COARSE PYROCLASTIC				
				BRECCIA. UNALTERED.				
186.3	197.3	11.0	100	Coarse grained volcaniclastics. Very large, subrounded felsic lava				
				clasts (quartz phyric) occur in a fine siliceous matrix. The core				
				is unaltered and unfractured (apart from the top 2-3m which is				
				weakly fractured). A few irregular chlorite veinlets cut the sequence				
				also. A gradational contact occurs with the unit below.				

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INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA			
From	To	m	%		Sample No.	From	To	Rec. %
197.3	217.4	20.1	100	Quartz-phyric lava. Massive pale pink-brown very fine grained lava with large quartz phenocrysts up to 3-2mm wide. Between 197.3 and 199.0, large (4-5mm) white clouded quartz phenocrysts occur (All the others are colourless). The core is unfractured and weakly quartz veined - with a few vuggy open fractures associated with some veins. At 210.0 a limonitic fracture occurs.				
				END OF HOLE 217.4				