DEV. PRESS

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

102148

HOLE NO. : HP45
STATE : TAS

PROJECT	TYNDALL
DESIGNED BY	A.J.CARTWRIGHT
LOGGED BY	A.J.CARTWRIGHT
COMMENCED	6.4.88
COMPLETED	12.4.88

PURPOSE

To test for rock conditions around the Proposed Henty Decline.

LOG SUMMARY / GENERAL COMMENTS

This hole was an attempt to deepen HP40, however the hole deviated at surface and started new hole, below and to the north of HP40. Similar lithologies were encountered; a Jukes Breccia sequence between two Newton Creek sandstone lenses, then at 66.8 (deeper than HP40) an unfractured Jukes Breccia was found.

ASSAY SUMMARY

INTERVAL From	INTERVAL To													COMMENTS

LOCATION

NORTHING	5363901.7
EASTING	380207.1
R.L.	2604.7
GRID	AMG
LENGTH	106.0

HOLE CONDITION

SIZE Hole Size	SIZE Depth
NQ	0.0-106.0

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost
0.0	27.5	76
27.5	34.3	15
34.3	66.8	13

POOR GROUND CONDITION ZONES From	To	Condition
0.0	29.2	Predominantly highly fractured
and		Newton Creek shales and
34.3	66.8	siliceous conglomerates. A puggy
		fault zone occurs in Jukes
		Breccia at 27.5-29.2.

HOLE CONDITIONS AFTER COMPLETION

All rods removed from hole.
Collar marker in place.

Hole making water, 99.0-100.0m.

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	072	44.0	0.0	15.0	15.0	10.4	2594.3	10.8	10.8
30.0	074	44.0	15.0	45.0	30.0	20.8	2573.4	21.6	32.4
60.0	-	42.0	45.0	80.0	35.0	23.4	2550.0	26.0	58.4
100.0	073	39.0	80.0	106.0	26.0	16.4	2533.7	20.2	78.6

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	27.5	6.6	24	NEWTON CREEK SANDSTONE. SILICEOUS PEBBLE CONGLOMERATE. STRONGLY FRACTURED COARSE GRAINED CONGLOMERATE WITH ABUNDANT CORE LOSS.				
27.5	34.3	5.8	85	COARSE GRAINED VOLCANICLASTICS CONSISTING OF LARGE FELSIC VOLCANIC CLASTS IN A GRITTY MATRIX. WEAKLY ALTERED AND FRACTURED WITH A PUGGY CRUSHED ZONE ON THE UPPER CONTACT.				
34.3	66.8	28.4	87	NEWTON CREEK SANDSTONE. INTERBEDDED COARSE SILICEOUS PEBBLE CONGLOMERATES AND FISSILE, DARK FINE GRAINED SHALES. GENERALLY STRONGLY FRACTURED.				
66.8	106.0	38.6	98	COARSE GRAINED GRITTY VOLCANICLASTICS. WEAKLY TO UNALTERED AND UNFRACTURED.				
				DETAILED LOG				
				0.0-27.5 HIGHLY FRACTURED SILICEOUS PEBBLE CONGLOMERATE.				
0.0	18.5			Tricone, no core recovered.				
18.5	27.5	2.2	24	Siliceous pebble conglomerate. Hard, fractured siliceous rounded, pebble sized quartzite fragments in a siliceous-volcaniclastic matrix. Strongly fractured, with much core loss.				
				27.5-34.3 COARSE GRAINED VOLCANICLASTICS. WEAKLY ALTERED AND FRACTURED.				

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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. %
27.5	34.3	5.8	85	Pale green-grey coarse-medium grained volcaniclastics. Numerous volcanic clasts, angular-sub-rounded, up to 3-4cm across (rare) but generally grit sized, occur poorly sorted in a fine volcaniclastic matrix. The rock is very weakly sericitic, moderately fractured and very weakly foliated. Between 27.5 and 29.2, the core is puggy and semi-consolidated - probably a fault zone. At 32.5, a 1.0m zone with limonite coated fractures occur.				
				34.3-66.8 INTERBEDDED COARSE SILICEOUS CONGLOMERATES AND FISSILE DARK SHALES. FRACTURED.				
34.3	66.8	28.4	87	Interbedded dark shales and siliceous pebble conglomerates. The latter consist of white sub-rounded poorly sorted pebble sized quartzite fragments in a fine siliceous matrix. These conglomerates are very clast-rich. The shale are dark, fissile, very fine grained and have small finer/darker/siltier lenses. The conglomerates are very weakly fractured and unfoliated, with rare irregular quartz veins. The shales are strongly fractured and foliated (sub-parallel) with irregular quartz veins. The upper 1.0m of this unit is a sericitic pale brown-green, coarse shale unit. Below this, conglomerate units occur between; 36.9 - 40.9, 44.7 - 45.8, and 58.7 - 66.2; the latter a coarse siliceous sandstone. In between these the shale units occur. A sharp contact-fractured-occurs with the unit below.				
				66.8-106.0 COARSE GRAINED GRITTY VOLCANICLASTICS UNALTERED AND UNFRACTURED.				
66.8	106.0	38.6	98	Pink-brown-grey coarse grained volcaniclastics. Unaltered coarse conglomeratic volcanics with large (up to 2-3cm wide) felsic (pink) volcanic clasts and grit sized clasts in a fine grained volcanic matrix. With depth, the rock becomes weakly altered to a chlorite-sericite assemblage. A few fine sandstone lenses occur and the rock is poorly sorted with sub-rounded-angular fragments. The core is unfractured				

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				and very weakly foliated. A few coarse, thick, white metamorphic				
				quartz veins are present.				
				Between 100.0 and 105.0, the core is weakly fractured, with				
				limonite staining developed on fracture surfaces.				
				END OF HOLE 106.0m.				