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CORE IN BURNIE

HOLE NO. : BT 171
STATE : TASMANIA

GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

PROJECT	BLUE TIER
DESIGNED BY	A.J. CARTWRIGHT
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	8-8-83
COMPLETED	11-8-83

PURPOSE

To find concealed stanniferous greisen in the North Anchor Area.

LOG SUMMARY

103.7m of Dg-fp containing veinlets of Cu-bearing minerals was found overlying mildly greisened Alkali Granite. Significant assays for both rock types are given below.

GENERAL COMMENTS

ASSAY SUMMARY

INTERVAL From	INTERVAL To	Sn	Cu	(Wt%)	Mo	Ag	(ppm)							COMMENTS
8.0	57.0	<0.01	0.12		<0.01	6								
103.7	140.0	<0.01												

LOCATION

NORTHING	5436214
EASTING	585107
R.L.	464.8
GRID	A.M.G.
LENGTH	140.0

HOLE CONDITION

SIZE Hole Size	SIZE Depth
TRICONE	0.0-8.0
BQ	8.0-140.0

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost

POOR GROUND CONDITION ZONES From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

Hole left open with a black polythene marker.

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	330	79.0	0.0	19.6	19.6	19.2	445.6	3.7	3.7
39.2	330	79.0	19.6	63.2	43.6	42.8	402.8	8.3	12.0
87.2	332	79.5	63.2	111.2	48.0	47.2	355.6	8.8	20.8
135.2	332	79.0	111.2	140.0	28.8	28.3	327.3	5.5	26.3

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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HOLE NO. **BT 171**

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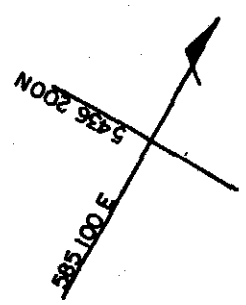
DIAMOND DRILL HOLE PLOT

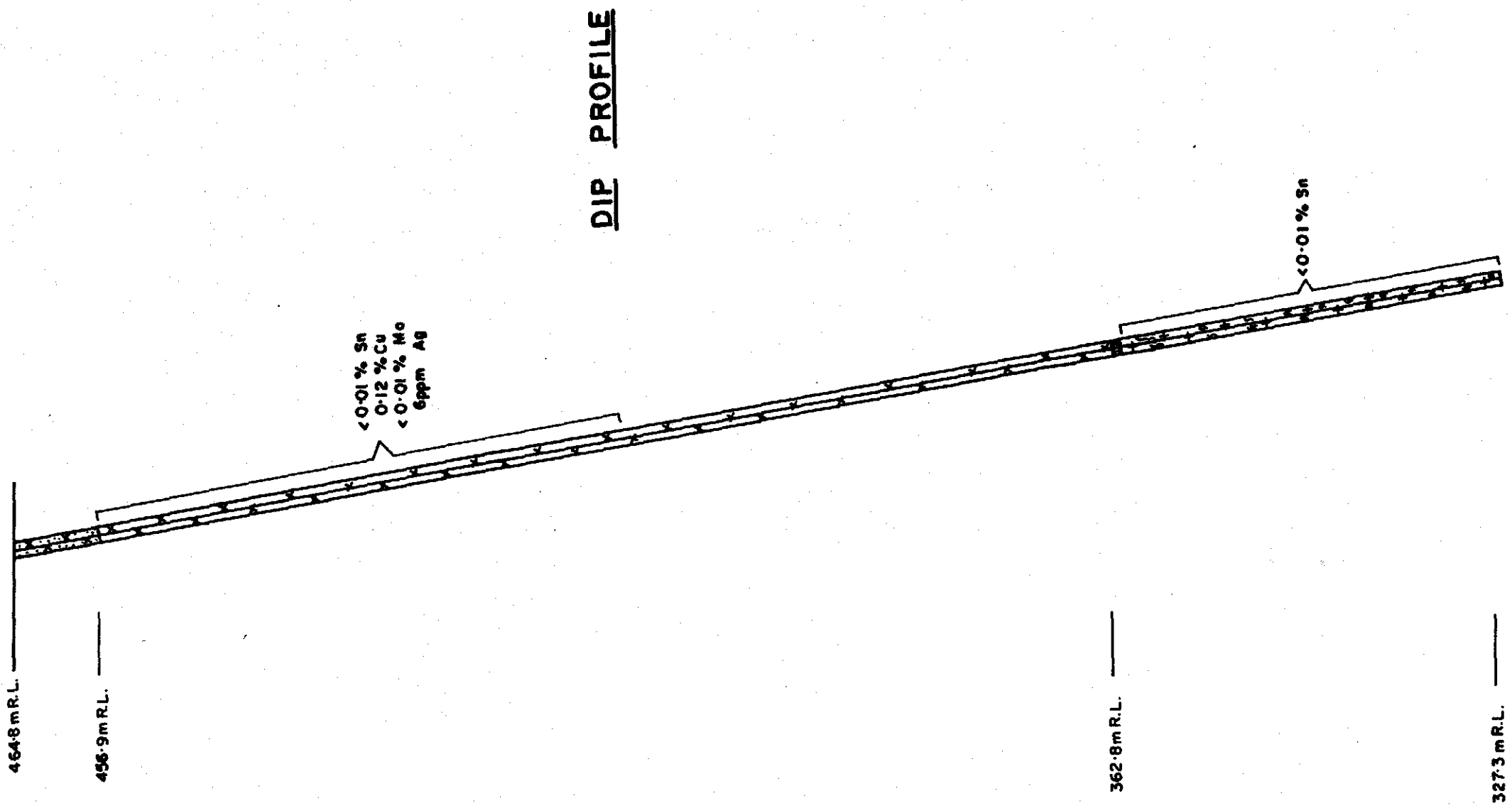
SCALE 1:

5 cm

PLAN



DIP PROFILE



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PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 171 Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				SUMMARISED LOG
0.0	103.7	100.7		FINE GRAINED, NON-PORPHYRITIC DG-FP, VARIABLY BUT USUALLY WEAKLY
				ALTERED WITH NUMEROUS VERTICAL VEINLETS OF QUARTZ, SERICITE,
				BORNITE AND CHALCOPYRITE.
103.7				CONTACT
103.7	140.0	36.3		MEDIUM GRAINED,EQUIGRANULAR ALKALI GRANITE. OVERALL MILDLY ALTER-
				ED WITH SOME STRONGLY GREISENED PATCHES DEVELOPED. THE UPPER
				CONTACT IS MARKED BY AN ALTERED ZONE OF MIXED LITHOLOGIES;
				ALKALI GRANITE, PEGMATITE AND APLITE.
				DETAILED LOG
				0.0-103.7 FINE GRAINED, WEAKLY ALTERED DG-FP ADAMELLITE WITH
				NUMEROUS QUARTZ AND QUARTZ-SULPHIDE VEINS.
0.0	8.0			Tricone - no core recovered.
8.0	15.0	7.0	100	Pink-grey, fine grained, very weakly porphyritic granite.
				Moderately altered (yellow sericitised feldspars are common)
				and weathered (abundant limonite staining). Highly fractured.
				Typical granitic texture with a few feldspar phenocrysts up to
				1m across. Minor quartz veining.
				At 13.5, a 0.5m long, 2mm wide, quartz-mica-bornite-veinlet
				at 0° CA.
15.0	103.7	85.7	97	Unweathered, grey, fine-grained, almost non-porphyritic granite.
				Very weakly altered with occasional pink-yellow stronger altered
				patches. These usually enclose quartz-chalcopyrite-bornite veins
(27.2-30.2, 2.0m recovered)				which are abundant. Sericite filled fractures are quite common.
				Hematite (red) and malachite(?) (green) also occur as fracture
				coatings. Thin aplite/pegmatites (≤5cm thick) of pink feldspar

ASSAY DATA Sample No.	From	To	Rec. %	Sn	Cu	(wt%)	Ag	Mo	(ppm)
4791	8.0	9.0	100	<0.01	0.01		1	<1	
4792	9.0	10.0	100	<0.01	0.03		<1	<1	
4793	10.0	11.0	100	0.01	0.01		<1	<1	
4794	11.0	12.0	100	0.01	0.03		2	<.01	
4795	12.0	13.0	100	<0.01	0.02		1	<.01	
4796	13.0	14.0	100	0.01	0.08		2	<.01	
4797	14.0	15.0	100	0.01	0.08		3	<.01	
4798	15.0	16.0	100	0.01	0.01		1	<.01	
4799	16.0	17.0	100	0.01	0.08		4	<.01	
4800	17.0	18.0	100	<0.01	0.05		4	<.01	
4851	18.0	19.0	100	0.01	0.07		2	<.01	
4852	19.0	20.0	100	<0.01	0.23		14	<.01	
4853	20.0	21.0	100	0.01	0.31		10	<.01	
4854	21.0	22.0	100	0.01	0.01		2	<.01	
4855	22.0	23.0	100	0.01	0.01		<1	<.01	
4856	23.0	24.0	100	<0.01	<0.01		<1	<.01	
4857	24.0	25.0	100	0.01	0.13		4	<.01	
4858	25.0	26.0	100	0.02	0.16		6	<.01	
4859	26.0	27.0	100	0.01	0.01		1	<.01	
4860	27.0	28.0	100	0.02	0.10		5	<.01	
4861	28.0	29.0	100	0.01	0.10		4	<.01	
4862	29.0	30.0	100	<0.01	0.15		6	<.01	
4863	30.0	31.0	100	0.01	0.06		2	<.01	
4864	31.0	32.0	100	0.01	0.06		3	<.01	
4865	32.0	33.0	100	0.01	0.16		6	<.01	
4866	33.0	34.0	100	<0.01	0.03		1	<.01	
4867	34.0	35.0	100	<0.01	0.04		3	<.01	
4868	35.0	36.0	100	<0.01	0.02		1	<.01	
4869	36.0	37.0	100	<0.01	<0.01		<1	<.01	
4870	37.0	38.0	100	0.01	0.29		17	<.01	
4871	38.0	39.0	100	<0.01	<0.01		1	<.01	
4872	39.0	40.0	100	<0.01	0.05		3	.01	
4873	40.0	41.0	100	0.01	0.12		5	<.01	
4874	41.0	42.0	100	0.01	0.17		7	<.01	
4875	42.0	43.0	100	0.01	0.10		4	<.01	

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GOLD FIELDS EXPLORATION PTY. LIMITED

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

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INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				and white quartz are found below 30.0. The sulphide veins are
				all between 0°-20° CA. The granite becomes slightly coarser
				grained and slightly more porphyritic in places.
				Below 57.0, the quartz-sulphide veins are absent, and the core
				is less fractured (unfractured). Also it gradually becomes
				unaltered, apart from 0.5m thick zones of increased fracturing
				and sericite development between 80.0 and 89.0. Beneath this,
(86.0-89.0, 1	0m recovered)			the granite is unaltered again, with minor quartz veining.
				After 100.5, the quartz veining with associated alteration
				haloes increases, along with increased sericite development.
103.70				CONTACT
				103.70-140.0 MILDLY ALTERED, MEDIUM GRAINED ALKALI GRANITE.
				AN APLITIC/PEGMATITIC COMPLEX IS DEVELOPED ON THE UPPER CONTACT.
103.70	104.8	1.1	100	A mixed greisened alkali granite - coarse grained pegmatite -
				layered (80° CA) aplitic complex. Green sericitised alkali gran-
				ite with pseudomporphedmicas has horizons of 10cm thick coarse
				(3 cm) grained feldspar (pink), quartz and biotite pegmatite.
				Aplitic (very fine grained) phases of alkali granite also occur.
				Fractures are rare, with sericite-fluorite coatings.
104.8	140.0	35.2	100	Patchily but overall weakly altered alkali granite. Medium grain-
				ed and non-porphyritic, it is weakly and moderately sericitised.
				Large (several metre) zones of a dark green siliceous greisen
				occur randomly. Narrower (approx. 0.5m) zones of bleached
				granite with no micas or pseudomoprhs developed are less common.
				The core is unfractured and unveined.
				At 125.1, a 0.4m long intergrowth of green sericite and white
				quartz. Sinuous in an irregular vein-like intergrowth.
				At 135.7, another such intergrowth occurs, with purple
				fluorite developed as well.
				The last 20.0m of this unit does not contain any strong alter-
				ation zones and exhibits a uniform weakly altered state.
				END OF HOLE 140.0

ASSAY DATA Sample No.	From	To	Rec. %	Sn	Cu	(wt%)	Ag	MO	(ppm)
4876	43.0	44.0	100	0.01	0.23		11	<.01	
4877	44.0	45.0	100	0.01	0.11		5	<.01	
4878	45.0	46.0	100	<0.01	<0.01		<1	<.01	
4879	46.0	47.0	100	<0.01	0.69		36	<.01	
4880	47.0	48.0	100	<0.01	0.25		16	<.01	
4881	48.0	49.0	100	0.01	0.28		13	<.01	
4882	49.0	50.0	100	0.01	0.24		12	<.01	
4883	50.0	51.0	100	<0.01	0.32		17	<.01	
4884	51.0	52.0	100	<0.01	0.08		13	<.01	
4885	52.0	53.0	100	<0.01	0.01		1	<.01	
4886	53.0	54.0	100	0.01	0.21		23	<.01	
4887	54.0	55.0	100	<0.01	0.19		10	<.01	
4888	55.0	56.0	100	0.01	0.18		11	<.01	
4889	56.0	57.0	100	0.01	0.21		11	<.01	
4890	103.7	105.0	100	<0.01				<	
4891	105.0	106.0	100	0.01					
4892	106.0	107.0	100	<0.01					
4893	107.0	108.0	100	<0.01					
4894	108.0	109.0	100	<0.01					
4895	109.0	110.0	100	<0.01					
4896	110.0	111.0	100	<0.01					
4897	111.0	112.0	100	<0.01					
4898	112.0	113.0	100	<0.01					
4899	113.0	114.0	100	<0.01					
4900	114.0	115.0	100	<0.01					
4901	115.0	116.0	100	<0.01					
4902	116.0	117.0	100	<0.01					
4903	117.0	118.0	100	<0.01					
4904	118.0	119.0	100	<0.01					
4905	119.0	120.0	100	<0.01					
4906	120.0	121.0	100	<0.01					
4907	121.0	122.0	100	<0.01					
4908	122.0	123.0	100	<0.01					
4909	123.0	124.0	100	0.02					
4910	124.0	125.0	100	0.03					

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PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 171 Page: 3.

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA													
From	To	m	%		Sample No.	From	To	Rec. %	Sn									
					4911	125.0	126.0	100	0.03									
					4912	126.0	127.0	100	0.07									
					4913	127.0	128.0	100	0.02									
					4914	128.0	129.0	100	0.01									
					4915	129.0	130.0	100	0.01									
					4916	130.0	131.0	100	0.01									
					4917	131.0	132.0	100	<0.01									
					4918	132.0	133.0	100	<0.01									
					4919	133.0	134.0	100	<0.01									
					4920	134.0	135.0	100	<0.01									
					4921	135.0	136.0	100	<0.01									
					4922	136.0	137.0	100	<0.01									
					4923	137.0	138.0	100	<0.01									
					4924	138.0	139.0	100	<0.01									
					4925	139.0	140.0	100	<0.01									

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