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CORE KEPT IN BURNIE

HOLE NO. : B.T. 169
STATE : TASMANIA

GOLD FIELDS EXPLORATION PTY. LIMITED
DRILL CORE RECORD

PROJECT	BLUE TIER
DESIGNED BY	A.J.CARTWRIGHT
LOGGED BY	A.J. CARTWRIGHT
COMMENCED	27-7-83
COMPLETED	2-8-83

PURPOSE

To test for extensions of the mineralisation in the Moon Mine Area.

LOG SUMMARY / GENERAL COMMENTS

Approximately 80 metres of strongly altered, greisened alkali granite was encountered between two Poimena Adamellite phases. Numerous xenoliths and intrusions of each occur. Significant assays are given below.

ASSAY SUMMARY

INTERVAL From	INTERVAL To	Sn	wt%											COMMENTS
29.0	110.8	<0.01												

LOCATION

NORTHING	5439129
EASTING	584388
R.L.	734.6
GRID	A.M.G.
LENGTH	146.5

HOLE CONDITION

SIZE

Hole Size	Depth
TRICONE	0.0-12.0
BQ	12.0-146.5

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		90.0	0.0	35.4	35.4	35.4	699.2	0.0	0.0
70.7		89.5	35.4	106.7	71.3	71.3	627.9	0.6	0.6
142.7		90.0	106.6	146.5	39.8	39.8	588.1	0.0	0.6

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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HOLE NO. **BT 169**

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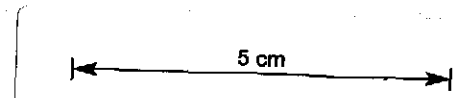
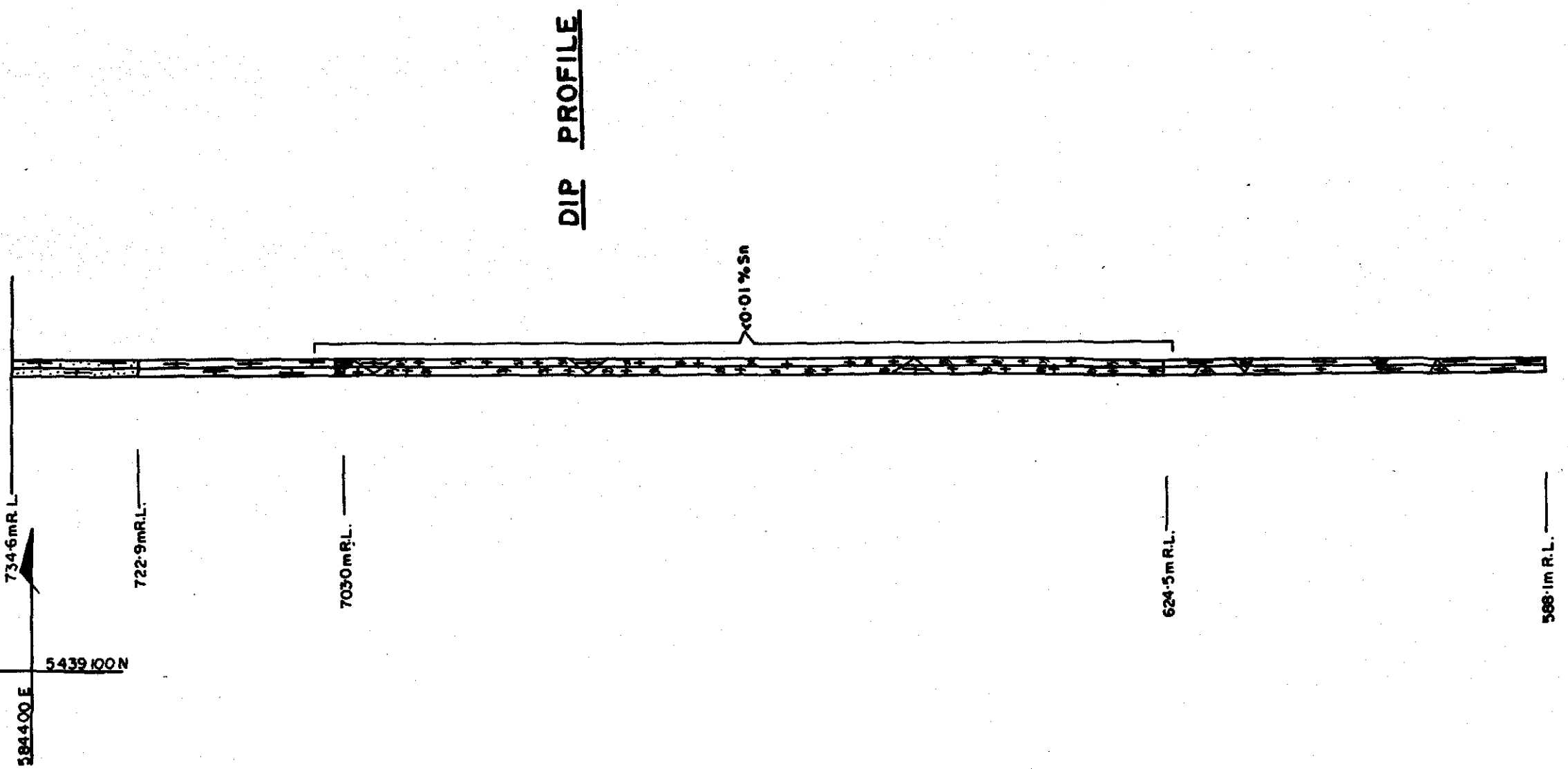
DIAMOND DRILL HOLE PLOT

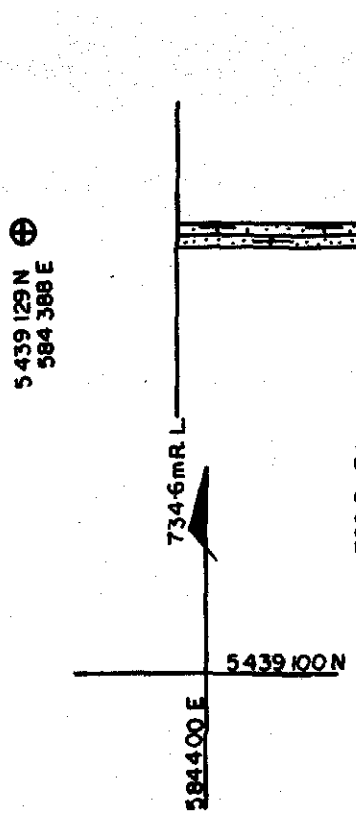
SCALE 1:



DIP PROFILE



PLAN



65/222

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GOLD FIELDS EXPLORATION PTY. LIMITED

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 169 Page: 1.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				SUMMARISED LOG				
0.0	31.6	31.6		UNALTERED, MEDIUM GRAINED, PORPHYRITIC POIMENA ADAMELLLITE WITH A WELL DEVELOPED BASAL PEGMATITE/APLITE COMPLEX.				
31.6				CONTACT				
31.6	110.3	78.7		STRONGLY ALTERED ALKALI GRANITE, GREISENED AND SERICITISED. NUMEROUS POIMENA ADAMELLITE XENOLITHS OCCUR.				
110.3				CONTACT				
110.3	146.5	36.2		WEAKLY ALTERED, MEDIUM GRAINED, PORPHYRITIC POIMENA ADAMELLITE CONTAINING MINOR ALKALI GRANITE INTRUSIONS.				
				DETAILED LOG				
				0.0-31.6 UNALTERED, MEDIUM GRAINED,PORPHYRITIC POIMENA ADAMELLITE WITH A PEGMATITIC ZONE DEVELOPED AT THE BASAL CONTACT.				
0.0	12.0			Tricone, no core recovered.				
12.0	29.0	17.0	100	Grey, medium grained porphyritic granite, consisting of large pinkish feldspar phenocrysts, smaller pale green feldspar and colourless quartz phenocrysts and numerous black biotites. Unfractured and unaltered with a few incipiently weathered zones. Also a few crushed-sericitised zones occur (30-40cm thick).				
				At 28.1, a 0.5m zone of pale red hematitic, highly altered silicified granite. Vuggy in places with all the micas replaced. This is underlain by 0.4m of highly altered granite with green sericitised feldspar.				

GOLD FIELDS EXPLORATION PTY. LIMITED

ULV. PRESS

PROJECT: BLUE TIER

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 169 Page: 2.

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA													
From	To	m	%		Sample No.	From	To	Rec. %	Sn	wt%								
29.0	31.6	2.6	100	Pegmatite and medium grained porphyritic granite. The first	4596	29.0	30.0	100	<0.01									
				0.8m of this unit is a grey coarse grained pegmatite with	4597	30.6	31.6	100	<0.01									
				minor aplitic phases. The feldspars are pale pink and pale	4598	31.6	32.6	100	0.01									
				green, sericite is common. Accessory purple fluorite also	4599	32.6	33.6	100	0.01									
				occurs.	4600	34.8	35.8	100	<0.01									
				This is underlain by 1.3m of moderately weathered, limonitised	4601	35.8	36.8	100	<0.01									
				medium grained granite. Alteration is strong with numerous	4602	36.8	37.8	100	<0.01									
				quartz veinlets and crush zones.	4603	37.8	38.8	100	<0.01									
				Beneath this is a 0.5m thick pale green quartz pegmatite.	4604	38.8	39.8	100	<0.01									
					4605	39.8	40.8	100	<0.01									
				31.6 CONTACT	4606	40.8	41.8	100	<0.01									
					4607	41.8	42.8	100	<0.01									
				31.6-110.3 VARIABLY BUT STRONGLY ALTERED AND GREISENED ALKALI	4608	42.8	43.8	100	<0.01									
				GRANITE WITH NUMEROUS POIMENA XENOLITHS.	4609	43.8	44.8	100	<0.01									
					4610	44.8	45.8	100	0.02									
31.6	33.2	1.6	100	Pale green, equigranular, medium grained alkali granite. Banded	4611	45.8	46.8	100	<0.01									
				with numerous pegmatites and several thick Poimena inclusions,	4612	46.8	47.8	100	<0.01									
				it is weakly greisened.	4613	47.8	48.8	100	0.01									
					4614	48.8	49.8	100	0.01									
33.2	34.8	2.6	100	A large Poimena inclusion. The granite is strongly altered	4615	49.8	50.8	100	0.01									
				and moderately fractured-softish. Large pink feldspar phenoc-	4616	50.8	51.8	100	0.02									
				rysts and smaller green (sericitised) ones occur. Quartz vein-	4617	51.8	52.8	100	<0.01									
				lets are common.	4618	52.8	53.8	100	0.01									
34.8	45.5	10.7	100	Moderately greisened, in some places stronger than others,														
				alkali granite. Its colour is a variety of greens with some														
				narrow, very dark patches. Moderately fractured with a blockiness														
				developed occasionally. The micas are pseudomorphed and secondary														
				micas are found along with accessory fluorite on joint surfaces.														
				Quartz-sericite veinlets, pegmatites and coarse grained variants														
				are all common features.														
				At 42.8, a 2-3m thick Poimena inclusion. Pink-green and														
				highly altered with numerous brown sericite veinlets.														
45.5	53.3	7.8	100	Topazised? alkali granite. Very pale green, equigranular with														

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DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 169

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA													
From	To	m	%		Sample No.	From	To	Rec. %	Sn	wt%								
				no trace of micas. A sugary texture. Weakly fractured with													
				limonitic coatings. Similar grainsize variant to above also														
				occur.														
53.3	57.8	4.5	100	A Poimena inclusion. An abrupt upper contact with a coarse-														
				medium grained very pink-green strongly altered granite. Unfract-														
				ured and not veined. The lower contact is angular at 40° CA.														
57.8	85.0	27.2	100	Weakly greisened alkali granite. Patchy altered, with dark	4619	57.8	58.8	100	0.01									
				and light green zones. Micas are partially replaced. The top	4620	58.8	59.8	100	<0.01									
				0.5m is silicified (in contact with above). Fractures are	4621	59.8	60.8	100	<0.01									
				rare, some are covered in bright purple fluorite.	4622	60.8	61.8	100	0.02									
				At 74.4 a bleached silicified portion of granite for 0.4m	4623	61.8	62.8	100	0.01									
				then at 75.7 a 0.4m section of dark green-sericite-very	4624	62.8	63.8	100	0.01									
				fine grained.	4625	63.8	64.8	100	0.01									
				Below 76.0, the alteration becomes highly variable on a	4626	64.8	65.8	100	0.01									
				0.5m scale, with zones of:- topazised? granite very dark	4627	65.8	66.8	100	0.01									
				green sericitised granite and pervasively silicified/	4628	66.8	67.8	100	0.01									
				sericitised granite.	4629	67.8	68.8	100	0.01									
					4630	68.8	69.8	100	0.01									
85.0	87.1	2.1	100	Poimena inclusion. Strongly altered, weakly fractured with	4631	69.8	70.8	100	0.01									
				several thin (5cm) pegmatites. Colours include-pink, green	4632	70.8	71.8	100	<0.01									
				and dark grey. Also minor intrusions of alkali granite occur.	4633	71.8	72.8	100	0.01									
					4634	72.8	73.8	100	<0.01									
87.1	110.3	23.2	100	Alkali granite. The top 0.6m is topazised? pale green with	4635	73.8	74.8	100	0.01									
				no mica pseudomorphs. This is underlain by weakly greisened,	4636	74.8	75.8	100	0.01									
				possibly slightly topazised granite. This unit is unusual	4637	75.8	76.8	100	<0.01									
				because all the minerals, quartz, feldspars and micas are	4638	76.8	77.8	100	0.01									
				elongated in a direction 45° CA. Weakly fractured with abundant	4639	77.8	78.8	100	0.01									
				green sericite and purple fluorite coatings.	4640	78.8	79.8	100	0.01									
				At 104.1 a 30cm crumbly crush zone of white clays.	4641	79.8	80.8	100	0.01									
				At 108.4 a 20cm Poimena xenolith-pink green, highly altered	4642	80.8	81.8	100	0.01									
				and surrounded by an alteration halo (narrow) within the	4643	81.8	82.8	100	0.01									
				alkali granite.	4644	82.8	83.8	100	<0.01									
					4645	83.8	84.8	100	<0.01									

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GOLD FIELDS EXPLORATION PTY. LIMITED

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DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: B.T. 169 Page: 4.

INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				110.3 CONTACT
				110.3-146.5 WEAKLY ALTERED, MEDIUM GRAINED, PORPHYRITIC POIMENA ADAMELLITE WITH MINOR ALKALI GRANITE INTRUSIONS.
110.3	146.5	36.2	100	Medium grained, porphyritic pink-grey granite. Weakly altered with minor sericite developed. Pink pegmatites and aplites are common (a 0.8m thick one at 115.0). Weakly fractured. Pink feldspar phenocrysts up to 2cm across occur. The top 3.0m also contains several thin alkali granite intrusions. These become ever thicker (approx. 0.5m) and more frequent with depth, as do the pegmatites (usually associated with the alkali granites). Between 127.2 and 131.0, approximately 50% of the core is alkali granite. Relatively fresh with altered zones occuring on the contacts.
				END OF HOLE 146.5m.

ASSAY DATA Sample No.	From	To	Rec. %	Sn	wt%
4646	84.8	85.8	100	0.01	
4647	85.8	86.8	100	<0.01	
4648	86.8	87.8	100	0.01	
4649	87.8	88.8	100	0.01	
4650	88.8	89.8	100	0.01	
4651	89.8	90.8	100	0.01	
4652	90.8	91.8	100	0.01	
4653	91.8	92.8	100	0.01	
4654	92.8	93.8	100	0.01	
4655	93.8	94.8	100	<0.01	
4656	94.8	95.8	100	0.01	
4657	95.8	96.8	100	0.01	
4658	96.8	97.8	100	<0.01	
4659	97.8	98.8	100	<0.01	
4660	98.8	99.8	100	<0.01	
4661	99.8	100.8	100	0.01	
4662	100.8	101.8	100	<0.01	
4663	101.8	102.8	100	0.01	
4664	102.8	103.8	100	<0.01	
4665	103.8	104.8	100	<0.01	
4666	104.8	105.8	100	<0.01	
4667	105.8	106.8	100	<0.01	
4668	1060.8	107.8	100	<0.01	
4669	107.8	108.8	100	<0.01	
4670	108.8	109.8	100	0.01	
4671	109.8	110.8	100	0.01	