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5006047

GOLD FIELDS EXPLORATION PTY. LIMITED
DRILL CORE RECORD

DEV. PRESS

HOLE NO.: ML 62
STATE : TASMANIA

PROJECT	Mt. Lindsay
DESIGNED BY	P.A. Roberts
LOGGED BY	A.J. Cartwright
COMMENCED	21-1-83
COMPLETED	1-2-83

PURPOSE

To test for the possible existence of skarn mineralisation as indicated by IP anomalies on Parsons Hood.

LOG SUMMARY

Hornfelsed sediments from The Crimson Creek Group were intersected. No appreciable skarn zones or areas of intense alteration were found.

GENERAL COMMENTS

SSAY SUMMARY

INTERVAL From	INTERVAL To		Sn	As	WO^3	Cu	Pb	Zn						COMMENTS
128.0	129.0		100	30	10	110	30	30						All values are in ppm.

OCATION

NORTHING	5385236
EASTING	361356
R.L.	541.3
GRID	A.M.G.
LENGTH	216.0

HOLE CONDITION

SIZE Hole Size	SIZE Depth
HQ	0.0-1.5
NQ	1.5-15.0
BQ	15.0-216.0

SIGNIFICANT CORE LOSS INTERVALS From	To	% Lost

POOR GROUND CONDITION ZONES From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

Hole open. Approximately 12m of black polythene left in the top of the hole.

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
0.0	254	40.0	0.0	17.0	17.0	10.9	530.4	13.0	13.0
34.0	*	39.5	17.0	49.0	32.0	20.4	510.0	24.7	37.7
64.0	*	39.5	49.0	79.0	30.0	19.1	490.9	23.1	60.8
94.0	*	39.5	79.0	115.0	36.0	22.9	468.0	27.8	88.6
136.0	*	38.2	115.0	145.0	30.0	18.6	449.4	23.6	112.2
154.0	*	37.5	145.0	169.0	24.0	14.6	434.8	19.0	131.2
184.0	*	37.5	169.0	199.0	30.0	18.3	416.5	23.8	155.0
214.0	*	38.0	199.0	214.0	15.0	9.2	407.3	11.8	166.8

* Irregular readings due to high magnetic susceptibility of rock.

SURVEY Depth	Bearing	Dip	INTERVAL From	To	Distance	VERTICAL D.Sin.Dip	R.L.	HORIZONTAL D.Cos.Dip	Prog.Total

5385189 N
361193 E

HOLE NO. ML 62

GOLD FIELDS EXPLORATION PTY. LIMITED

DIAMOND DRILL HOLE PLOT

SCALE 1:50(

METRES

5385236 N
361356 E

5 cm

PLAN

541·3mR.L.

5385150N

361250E

DIP PROFILE

HORNFELSED SANDSTONES, SILTSTONES & CHERTS

GRANITE

419·3m R.L.

200·1m

5060483

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DRILL CORE LOG AND ASSAY DATA

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INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				SUMMARY LOG
0	17.6	17.6		HORNFELSED SANDSTONE WITH MINOR CHERTS AND SILTSTONES INCIPIENTLY ALTERED.
17.6	27.7	10.1		BANDED CHERTS AND SILTSTONES. WEAKLY ALTERED.
27.7	80.7	53.0		COARSE AND FINE GRAINED, HORNFELSED SANDSTONE, WITH THIN CHERT BEDS AND RARE CALCAREOUS SANDSTONES WHICH ARE STRONGLY ALTERED. OVERALL WEAKLY ALTERED.
80.7	90.3	9.6		CHERT WITH SEVERAL CALCAREOUS SANDSTONE BEDS. MODERATELY ALTERED.
90.3	133.1	42.8		SILTSTONE WITH MINOR INTERBEDDED CHERTS AND SANDSTONES WEAKLY ALTERED.
133.1	142.2	9.1		HORNFELSED SANDSTONE, VARIABLE GRAINSIZE. UNALTERED.
142.2	173.9	31.7		INTERBEDDED CHERT AND SILTSTONE WITH MINOR SANDSTONE LENSES. WEAKLY ALTERED.
173.9	200.1	26.2		STRONGLY HORNFELSED COARSE GRAINED SANDSTONE. SLIGHTLY ALTERED.
200.1	216.0	15.9		COARSE GRAINED, WEAKLY PORPHYRITIC GRANITE. WEAKLY ALTERED.

ASSAY DATA Sample No.	From	To	Rec. %

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DRILL CORE LOG AND ASSAY DATA

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INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				DETAILED LOG
				0-17.6 HORNFELSED, INCIPIENTLY ALTERED SANDSTONE.
0.0	3.0	3.0	100	Weakly weathered, purplish-brown sandstone with white cherty bands at approx 45°CA, around 10cm thick. Weakly fractured and incipiently altered.
3.0	7.0	4.0	100	Dark brownish grey, medium-fine grained muddy sandstone with very thin, white cherty horizons irregularly shaped, at 45°CA. Also thicker(~10cm) chert beds. Pyrite occurs as syn-sedimentary? infillings and evidence of soft sediment deformation such as dewatering structures occur. Pyrite also forms/is remobilised? veins which show cross-cutting relationships. Overall incipiently altered, with actinolite weakly developed in the thicker chert units.
7.0	17.6	10.6	100	Mixed lithologies of coarse brown sandstones, pale grey siltstones and rare chert beds all irregularly bedded. Alteration and veining are as above, both very weakly developed. Veins have thin (2-3cm) actinolitic alteration haloes. At 13.6, a poorly developed stockwork of increased alteration, thin quartz-pyrite veins, to 20cm.
				17.6-27.7 BANDED CHERTS AND SILTSTONES
17.6	23.8	6.2	100	Chert rich bands within a dark grey silststone, very fine grained. Pyrite is common, especially within the cherty sediments. Very weakly fractured with very thin talc coatings.
23.8	24.8	1.0	100	Brown, moderately strongly pyritic chert bed. Pyrite occurs in primary stratabound? mineralisation weakly altered.
24.8	26.4	1.6	100	Dark siltstone, very fine grained with white chert beds. The latter are fractured with offsets of several mm, now sealed with

ASSAY DATA Sample No.	From	To	Rec. %

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INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA (all in ppm) Sample No.	From	To	Rec. %	Sn	As	WO_3	Cu	Pb	Zn
				pyrite. At 25.1, a 10cm thick pyrite filled fracture. Actinolitic alteration occurs in the chert units.	3251	26.0	28.0	100	10	30	10	155	60	50
26.4	27.7	1.3	100	Chert, banded with green actinolitic and pink garnet alteration. Shows soft sediment deformation with large lenses of pyrite (0.5cm). Thin green sandstone bands. At 26.9, a zone of massive disseminated pyrite and actinolite with minor quartz + carbonate.										
				27.7-80.7 WEAKLY ALTERED HORNFELSED SANDSTONE.										
27.7	42.2	14.5	100	Medium grained, grey-brown sandstone with several chert beds. The sandstone is mixed-coarser brown (more hornfelsed?) and finer grey. Moderately abundant sulphides occuring as thin veinlets with quartz. At 36.5, minor chalcopyrite-pyrite in veins for 10cm. At 41.0, 0.5m of interbedded chert-sandstone, veined (pyrite) and altered (actinolitic-green). Overall weakly altered and unfractured.	3252	36.0	37.0	100	10	20	20	140	410	65
42.2	46.9	4.7	100	Medium grey, coarse grained sandstone. Very rare chert (white) occurs as thin horizons. Pyrite and rare chalcopyrite form veinlets. Unfractured and unaltered.										
46.9	48.3	1.4	100	Alternating fine grained grey sandstone and light green altered chert. Very weakly fractured.										
48.3	50.6	2.3	100	A chert bed with layers of pink and green alteration (the green occurs in sandier lenses). Some soft sediment deformation. At 49.0, 20cm of leached, brown gossan-like sulphide and calcite, weakly fractured. At 49.6, a 5cm zone of sand-silt and clay-green in colour. Possibly a fault? Several veins of brown vuggy quartz with dark green alteration haloes, 2-3cm thick occur next to this zone.	3253	49.0	50.0	100	<10	20	10	115	160	205
50.6	56.1	5.5	100	Sandstone, medium to fine grained with thin chert horizons and a few thicker (5cm) ones. Brown grey (sandstone) and										

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INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA (all in ppm) Sample No	From	To	Rec. %	Sn	As	WO_3	Cu	Pb	Zn
				white (chert). Abundant pyrite within chert units. Unfractured and unaltered aside from small weakly altered zones.										
56.1	57.8	1.7	100	Chert, strongly pyritic and chert-sandstone (white-green) beds (altered) occur for 40cm. This is underlain by 1.3m of strongly altered, green calcareous sediment, now vuggy carbonate, green actinolite and quartz, with accessory pyrite, chalcopyrite sphalerite and galena? as disseminations. Quartz veining is weakly developed. Alteration is pervasive and strong with abrupt changes into very weakly altered rock either side.	3254	56.0	58.0	100	-	30	<10	515	100	185
57.8	71.6	13.8	100	Brown coarse grained sandstone, with alternating fine grained, grey siltstone-sandstone irregualry bedded with white chert bands. Quartz and pyrite veins occur and alteration is very weak. Irregular lithologic changes take place with coarse grained sections and at 63.1, a 10 cm breccia-clast rich was found. Unfractured. Between 63.5 and 64.7, a large chert rich bed, green and white with fine dark grey sediments and moderately abundant pyrite. At 64.7, 0.9m of black siltstone with many thin pyrite-horizons subparallel to bedded at 45°CA.										
71.6	72.1	0.5	100	Strongly altered calcareous sandstone. Pervasive green actinolitic alteration, common pyrite, quartz (large blotches) and some brown mineral-unknown. No other sulphides, mosaic-like appearance.	3255	71.1	72.1	100	<10	<10	10	170	430	80
72.1	80.7	8.6	100	Hornfelsed, spotted sandstone with large white (quartz?) grains and brown (micaceous) crystals. Overall dark grey and coarse grained. Unfractured, unaltered and no sulphide. At 74.5, 0.5m of chert rich irregularly bedded sediment.										
				80.7-90.3 MODERATLEY ALTERED CHERT										
80.7	81.7	1.0	100	Chert bed with pale pink green actinolite-garnet alteration. Rare sulphide, irregularly bedded.										

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INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
81.7	82.0	0.3	100	Strongly altered calcareous sandstone with abundant sulphide including chalcopyrite, carbonate, dark and light green actinolite, throughout. At 81.9, a 1cm thick vuggy quartz-carbonate vein.
82.0	82.9	0.9	100	Pale green chert with very thin lenses of dark green sandstone, moderately altered. Numerous fractures.
82.9	83.2	0.3	100	Strong altered sandstone, with pink garnet, brown biotite, green actinolite, quartz and minor sulphides.
83.2	90.3	7.1	100	Moderately altered chert, very irregularly bedded. Pink-green and pale grey in colour. A few vuggy pyrite veins exist with patches of stronger green pyritic alteration in fine sediment-chert beds. Unfractured with many veins and veinlets. A few massive 'blobs' (1-2cm) of pyrite. Grades into unit below.
				90.3-133.1 WEAKLY ALTERED SILTSTONE
90.3	105.9	15.6	100	Very fine grained dark grey siltstone with cherty horizons. Weak to unaltered with slight pink colour in cherts. Moderately pyritic. Patches of coarser grained biotite (brown) rich sandstone. Between 92.0 and 94.0, larger (10-30 cm thick) irregular beds of chert occur. After 99.8, cherts increase to make a sequence of alternating chert-siltstone-unaltered.
105.9	124.8	18.9	100	Light grey, very fine grained sandy siltstones with a few 20-30 cm thick medium grained brown-grey sandstones. Also a few fine mud-chert layers. Irregularly bedded and weakly altered with pyrite and rare chalcopyrite, mainly as veinlets. Cross-bedding structures occur. Hornfelsed. At 117.3, 0.5 m of dark calcareous, strongly altered rock. Pink and black veins and calcite as veins, patches and pervasive. Minor sulphides.

ASSAY DATA (all in ppm)

Sample No.	From	To	Rec. %	Sn	As	WO_3	Cu	Pb	Zn
3256	81.0	84.0	100	20	80	<10	80	110	30

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INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	Sample No.	From	To	Rec. %	ASSAY DATA (all in ppm) Sn	As	WO_3	Cu	Pb	Zn
124.8	128.0	3.2	100	Black-dark grey siltstone, with beds of brown-grey fine grained sandstone. A few veins of pyrite and chalcopyrite, also synsedimentary stratabound pyrite. Thin (10-20cm) and very thin (several cm) cherty siltstones (green-altered) occur. At 127.5, 15cm of vuggy, altered, green actinolite, fine grained disseminated sulphide and quartz, beneath a thin (2mm) sulphide -carbonate vein at 90°CA.	3257	124.0	125.0	100	<10	30	<10	150	60	30
128.0	129.0	1.0	100	Hornfelsed brown sandstone, moderately altered-incipiently silicified. Fine sulphides are disseminated throughout, with carbonates patchily developed. At 128.4, at 45°CA, a 0.5cm quartz-tourmaline vein.	3258	128.0	129.0	100	100	30	<10	130	40	30
129.0	133.1	4.1	100	Interbedded black siltstone and pale grey chert, 0.5m to 1.0m thick beds. Thin syn-sedimentary sulphide beds-remobilised into veins. Some cherts are pink-green altered and contain massive sulphide pods (pyrrhotite?). At 131.6, 10cm of unusual actinolite + calcite + pyrite + massive muscovite alteration.										
				133.1-142.2 UNALTERED HORNFELSED SANDSTONE										
133.1	142.2	9.1	100	Dark brown (hematitic?) sandstone, medium to very fine grained. Some coarser grained beds and thin chert beds (10-20cm). Unaltered apart from cherts which are pink-green and relatively sulphide rich. Sulphides are uncommon in the coarser grained units. At 135.0, minor chalcopyrite in sulphide in chert bed and at 136.5, a 0.5cm vein, 10°CA, of quartz, sulphide with a large vug in the centre.	3259	134.5	135.5	100	<10	30	10	110	30	30
				142.2-173.9 WEAKLY ALTERED INTERBEDDED CHERT AND SILTSTONE										
142.2	155.9	13.7	100	Siltstone, dark grey and fine grained with several 10-20cm thick chert beds. Incipiently altered siltstone and weakly altered chert with pyrrhotite in the cherts and pyrite-chalcopyrite in the siltstone. Between 143.0 and 145.0, the veins are	3260	143.0	145.0	100	10	10	20	120	20	40

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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. %
				well developed and thick, richer in chalocpyrite. At 155.0, sand-				
				stone lenses (brown) appear.				
155.9	160.9	5.0	100	Light grey chert with patches of strong alteration; green				
				actinolite, pink garnet, calcite and sulphides (pyrite)-				
				20-30cm thick. Calcite veins occur. The chert is banded-				
				darker and lighter grey bands. The sulphide content is low.				
160.9	167.2	6.3	100	Medium to coarse grained, brown sandstone with rare, thin				
				(several cm) cherty lenses. No sulphides, unaltered and				
				numerous quartz veins (metamorphic). Unaltered, mica rich,				
				massive, hornfelsed sandstone.				
167.2	173.9	6.7	100	Banded pink-green chert. Relatively fresh with rare sulphides-				
				pyrite, and few veins. Irregularly bedded.				
				173.9-200.1 HORNFELSED COARSE GRAINED SANDSTONE				
173.9	200.1	26.2	100	Coarse grained micaceous sandstone with a few chert beds.				
				(Coarse grained due to hornfelsing). Very minor pyrite develop-				
				ment. Many quartz veins occur, some showing pinch and swell				
				structures. At 183.9, lenses 10-20cm thick, of calcite actin-				
				olite and minor pyrite - altered zones. After 186.5 most				
				of the quartz veins have a thin (several mm) siliceous halo.				
				At 195.8, the rock becomes moderately fractured, blocky,				
				with pale blue clay coatings (very thin). At 199.0, a few				
				quartz-tourmaline veins. 0.5cm thick, 20°CA. The last 1.0m				
				is pale brown coloured and fine grained (possibly completely				
				recrystallised).				
	200.1			CONTACT				
				200.1-216.0 WEAKLY ALTERED GRANITE				
200.1	204.1	4.0	100	Weakly sericitised granite. Coarse and fine grained with				

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INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
				green (dark and light) sericitised micas. Weakly porphyritic
				with phenocrysts of quartz and feldspar. Some zones of pervasive
				silicification and a few tourmaline veins. At 203.6, a massive,
				10cm zone of quartz-tourmaline (nodule).
204.1	216.0	11.9	100	Fresh, grey, moderately porphyritic granite. Feldspar pheno-
				crysts up to 1.5cm, quartz to 1.0cm, rare pale green sericitised
				feldspars and large black "book" biotites. At 207.0 10cm
				of quartz-tourmaline (nodule) underlain by 30cm of increased
				sericitisation. Between 209.0 and 210.0, increased sericite
				development surrounding 2 quartz tourmaline veins. At 214.2,
				5cm of massive quartz-tourmaline (nodule) coarse grained.
				END OF HOLE

ASSAY DATA Sample No.	From	To	Rec. %