GOLD FIELDS EXPLORATION PTY. LIMITED

DRILL CORE RECORD

491068

HOLE NO.: GP 5
STATE : TASMANIA

LV. PRESS

PROJECT	GRAND PRIZE EL 42/71
DESIGNED BY	P. KOMYSHAN
LOGGED BY	P. KOMYSHAN
COMMENCED	24/2/83
COMPLETED	16/3/83

PURPOSE

To test proposed mineralised faults and replacement mineralisation in Red Lead Conglomerate.

LOG SUMMARY

0 ~ 183.1m Hodge Slate.
183.1~ 185.7m Fault.
185.7~ 197.3m Red Lead Conglomerate.
197.3~ 220.2m Melba Spillite.

GENERAL COMMENTS

No significant mineralisation intersected.
No Sn mineralised fault system intersected.

ASSAY SUMMARY

INTERVAL From	INTERVAL To	Sn	Sn (Acid Sol.)	As	WO_3	Cu	Pb	Zn	Ag	Bi				COMMENTS
185.7	197.3	<0.01%	<0.01%	<0.01%	<0.01%	0.01%	0.02%	0.10%	2ppm	<0.01%				Red Lead Conglomerate.

LOCATION

NORTHING	14512.673
EASTING	13780.561
R.L.	2394.602
GRID	R.M.G.
LENGTH	220.2m

HOLE CONDITION

SIZE Hole Size	SIZE Depth
HW	6m
HQ	99m
NQ	220.2m

SIGNIFICANT CORE LOSS INTERVALS

From	To	% Lost
183.1	185.7	42

POOR GROUND CONDITION ZONES

From	To	Condition

HOLE CONDITIONS AFTER COMPLETION

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	320°	-53°	0	19.0	19.0	15.17	2379.43	11.43	11.43
38.0	315°	-54.5°	19.0	53.25	34.25	27.92	2351.51	19.92	31.35
68.5	315.5°	-55.5°	53.3	83.5	30.25	24.89	2326.62	17.00	48.46
98.5	313.0°	-57°	83.5	112.5	29.0	24.32	2302.30	15.79	64.25
126.5	312.5°	-57.5°	112.5	147.0	34.5	29.10	2273.20	18.54	82.79
167.5	312.0°	-57°	147.0	182.75	35.75	30.02	2243.18	19.50	102.29
198.0	311.0°	-57.5°	182.75	208.5	25.75	22.52	2220.66	14.35	116.63
219.0	309.0°	-58°	208.5	220.2	11.7	9.07	2211.59	5.67	122.3

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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INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION
0	3.1			Weathered Bedrock and drill site debris.
3.1	183.1	1.5	99	LAMINATED SILTSTONE: Hodge Slate Laminated to well bedded grey/black siltstone/shale interbedded with minor sandstone, grit and occasional conglomerate beds. The conglomerate and grits consist of grey sandstone/siltstone, basalt and minor carbonate. Minor scour structures occur at the base of the conglomerate beds. Conglomerate horizons occur at 3.9m, 11.6-12.0m, 13.5m, 18.6m, 20.1-20.2m, 22.6m, 23.7m, 29.3m, 31.4m, 32.1-32.2m, 32.8m, 39.1m, 65.5m, 89.4m. 91.9m, 104.9m, 115.0-115.2m, 123.4m, 124.8m, 125m, 126.9m, 142.4m, 143.2m, 150.5m, 155.7m, 181.0m Mineralisation: Minor disseminated pyrite occurs throughout. Pyrite also occurs on joints and within coarse grit and conglomerate horizons with apparent replacement of carbonated by up to 5-10% pyrite, e.g. 39.1m. 156.7-157.0m: pyrite healed breccia. Faults: 12.0 - 12.2m: weathered clay zone. 30.8m: brecciated zone with minor quartz; minor fault? core well jointed. B.C.A.'S: 3.0-10.0m 70° 10.0-55.0m average 60° 55.0-183.1m average 70°-80° Petrology for 39.1m Classification-Composition Pyritic Breccia. Framework of chlorite-sericite-altered carbonaceous pelite, subordinate similarly altered basalt clasts. Chlorite-sericite matrix. More or less pervasive fine-grained pyrite.

ASSAY DATA Sample No.	From	To	Rec. %	Sn	Sn Sol.	As	WO_3	Cu	Pb	Zn	Ag	Bi
4043	156.7	157.0	100	10	100	880	30	55	640	4080	2	40

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INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %
				Fabric				
				Randomly sorted breccia with semi-plastically deformed pelite clasts as discordant band in massive pelite.				
				Accessories				
				Sparse clasts of pyritic quartz-chlorite vein, chromite.				
				Comments				
				Discordant band of pyrite-chlorite-sericite-altered breccia in carbonaceous silty pelite. Pyrite is partly retrograde after pyrrhotite, chlorite locally pseudomorphs tremolite-actinolite.				
				Opaques				
				Polished section examination reveals traces of extremely fine-grained rutile as inclusions in pyrite and extremely rare clots of digenite and covellite apparently supergene after <50 u chalcopyrite partial inclusions in pyrite. The Fe-sulphide is variably spongy and microcrystalline (secondary after pyrrhotite) to granular and grading into clusters of fine (<100 u) sub- to euhedral grains representing introduced (fracture and siliceous vein-related) aggregates. There is no detectable cassiterite.				
				Petrology for 156.8m				
				Classification-Composition				
				Pyritic Breccia. Clasts of strongly carbonaceous shale, silty shale, veined, cemented, marginally corroded by fine-grained pyrite.				
				Fabric				
				Essentially a pyrite-healed breccia. Splintery to angular clasts.				
				Accessories				
				Traces sphalerite (random patches of 200 u).				
				Comments				
				Close affinities with 39.1m. The pelite represented as clasts is closely analogous to the 39.1m host rock (weakly quartz-muscovite-sericitised feldspar silty shale).				

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INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %	Sn	Sn(Sol)	As	WO_3	Cu	Pb	Zn	Ag	Bi
				Opaques													
				Polished section examination reveals textural relationships													
				similar to those at 39.1m, with zones of fine- to medium-													
				grained pyrite, often with intergrown marcasite representing													
				pyritised pyrrhotite, interspersed with modally coarse-grained													
				pyrite veinlets. The thinly disseminated sphalerite includes													
				ultrafine exsolved pyrrhotite and occurs as angular clasts													
				embedded in pyrite.													
					4044	183.1	184.7	56	10	<100	50	20	75	110	2460	2	30
183.1	185.7	1.5	58	FAULT	4045	184.7	185.7	69	<10	<100	20	10	85	110	2880	4	30
				Weathered broken limonite stained zone consisting of fragments													
				of siltstones conglomerates, tuffs and basalt. There is no													
				evidence of mineralization.													
185.7	192.0	5.7	90	CONGLOMERATE: Red Lead Conglomerate?	4046	185.7	187.0	97	<10	<100	<10	30	105	120	3510	2	30
				Blue grey conglomerate with predominant large tuffaceous and	4047	187.0	188.0	89	<10	<100	<10	10	160	100	4140	2	30
				basaltic clasts e.g. 185.75-186.05m. Other clasts include	4048	188.0	188.7	89	<10	<100	<10	<10	150	200	700	2	30
				rounded dolomite and chert. The matrix is predominantly a medium	4049	188.7	190.0	88	<10	<100	<10	<10	60	170	400	2	30
				grained felsic crystal vitric lithic tuff.	4050	190.0	191.0	95	10	<100	<10	<10	40	210	560	2	40
					4051	191.0	192.0	100	<10	<100	<10	10	65	150	930	2	30
				Mineralization: The unit is generally unaltered and unmineral-													
				ized (disseminated pyrite <1%) except for 188.7-190.0m where													
				the rock is tourmalinized with disseminated pyrite of 1-3%.													
				Petrology for 185.9m													
				Classification - Composition													
				Altered Microgabbro. Sericite-pseudomorphed feldspar laths,													
				subordinate chlorite-pseudomorphed pyroxene, disseminated													
				leucoxenised opaques. Sparse chlorite-quartz mesostasis.													
				Fabric													
				Relict even-grained doleritic (subophitic). Minor chloritic-													
				sericitic fractures.													
				Accessories													
				Sparse corroded relics of titaniferous magnetite in leucoxene.													

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INTERVAL From	INTERVAL To	RECOVERY m	RECOVERY %	DESCRIPTION	ASSAY DATA Sample No.	From	To	Rec. %	Sn	Sn(Sol)	As	WO_3	Cu	Pb	Zn	Ag	Bi
				Comments													
				Thoroughly altered basic ?minor intrusive. The sericite-chlorite assemblage is possibly "retrograde" after uralite-saussurite.													
92.0	197.3	5.2	98	CONGLOMERATE: Red Lead Conglomerate.	4052	192.0	193.0	90	<10	<100	<10	20	160	240	373	2	30
				Massive conglomerate (more typical of the Red Lead Conglomerate	4053	193.0	194.0	100	50	<100	<10	<10	95	120	515	2	40
				unit) with large to small clasts of subrounded to subangular	4054	194.0	195.0	100	10	<100	<10	<10	80	240	505	2	40
				basalt, chert, dolomite, siltstone and minor tuff. The unit	4055	195.0	196.0	100	<10	<100	<10	<10	145	1150	235	3	40
				is generally unaltered with some weathering out of carbonate	4056	196.0	197.3	100	10	<100	10	<10	130	110	600	2	40
				clasts. Only minor pyrite replacement of carbonate clasts occurs,													
				associated with sphalerite. Calcite tension veins occur.													
197.3	220.2	21.9	97	SPILITE: Melba Spilite.	4057	212.4	212.7	100	<10	<100	<10	30	70	230	5800	2	30
				Blue grey fine to medium grained basalt. The spilite character is shown by irregular occurences of basaltic breccia,													
				basaltic conglomerate with dolomite clasts and sediments consisting predominantly of basic crystal tuff occuring between													
				lava pillows. Unaltered tuff rich dolomite horizons occur at													
				205.9-206.1m, 208.3-208.5m and 219.7-220.1m. The unit is un-													
				mineralizaed and unaltered except for minor pyrite replacement													
				of dolomitic conglomerate at 212.4-212.7m.													
				209.2m barren quartz vein.													
				208.7m tourmaline veinlets.													