













GOLD FIELDS EXPLORATION PTY. LIMITED  
**DRILL CORE LOG AND ASSAY DATA**

PROJECT: Grand Prize

HOLE NUMBER: GP3A

Page: 6.

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA (ppm)													
From	To	m	%		Sample No.	From	To	Rec. %	Sn	Sn(sol)	As	Cu	Pb	Zn	Ag	Bi	Au	S%
				<u>MINERALIZATION AND ALTERATION:</u>														
				402.6-402.8: quartz and actinolite, oxinite pyrrhotite vein.														
				404.1-404.2: quartz, actinolite vein.														
				409.3-409.7: minor actinolite veinlet.	2805	417.0	418.0	87	30	-	20	50	110	11200	2	35	<0.1	0.6
					2806	418.0	419.0	87	10	-	10	40	40	1320	1	10	<0.1	<0.1
				<u>FAULTS:</u> 415.5-423.4 broken zone including 417.5-417.7 brown puggy zone with black to honey coloured sphalerite.	2807	419.0	419.6	100	20	-	<10	30	40	3080	2	30	<0.1	<0.1
				418.9-419.0 clay puggy brecciated zone.	2808	419.6	420.9	100	30	-	20	40	40	470	1	15	<0.1	<0.1
				419.4-419.6 altered carbonate rich conglomerate - breccia.	2809	420.9	421.2	100	20	-	40	50	50	1770	2	25	<0.1	0.2
				420.9-421.1 green actinolite rich pug.	2343	437.8	439.1	95	20	-	<100	15	<5	1300	<0.5	<10	-	-
				437.8-439.1 broken zone.														
				B.C.A. : 60° at 413.0m.														
149.2	460.2	10.5	95	<u>SANDSTONE AND INTERBEDDED SILTSTONE: NODGE SLATE?</u>	2344	449.0	450.0	100	10	-	100	65	<5	5800	<0.5	<10		
				Grey to purple sandstone with siltstone and minor fine grained conglomerate interbeds.	2345	450.0	451.0	100	15	-	<100	50	25	3300	<0.5	<10		
					2346	451.0	452.0	100	30	-	<100	5	<5	1700	<0.5	<10		
					2347	452.0	453.0	100	30	-	<100	5	<5	775	<0.5	<10		
					2348	453.0	454.0	92	30	-	<100	20	<5	670	<0.5	<10		
				<u>MINERALIZATION:</u> Minor veinlets of siderite occur throughout.	2349	454.0	455.0	100	15	-	<100	30	<5	700	<0.5	<10		
				Silicification and minor pyrite mineralization occurs at 450.3-450.9m	2350	455.0	456.0	100	25	-	<100	135	<5	1650	<0.5	<10		
					2351	456.0	457.0	100	25	-	<100	10	<5	680	<0.5	<10		
				At 455.8-455.9m coarse grained sandstone is indurated with sphalerite.	1354	457.0	458.0	100	20	-	<100	15	20	1200	<0.5	<10		
					1353	458.0	459.0	100	30	-	<100	20	20	1700	<0.5	<10		
					1352	459.0	460.0	79	15	-	100	40	25	1500	<0.5	<10		
				<u>FAULTS:</u> Minor fault at 449.2-451.2m. The core is increasingly broken downhole towards the Grand Prize Fault.														
				B.C.A. at 453.8m 60°.														
460.2	481.7	17.2	80	<u>FAULT: GRAND PRIZE FAULT.</u>	1351	460.0	461.0	100	15		<100	30	15	1700	<0.5	<10		
				Broad broken zone with numerous clay puggy zones. In detail from 460.2-475.0m the broken rocks consist of grey to purple sandstone, similar to above unit with clay puggy zones developed at: 460.5-462.0m (actinolite altered).	1350	461.0	462.0	100	15		<100	30	25	1400	<0.5	<10		
					1349	462.0	463.0	67	20		<100	45	<5	1850	<0.5	<10		
					1348	463.0	464.0	67	40		<100	60	10	1400	<0.5	10		
					1347	464.0	465.0	100	80		200	600	40	3100	<0.5	30		



GOLD FIELDS EXPLORATION PTY. LIMITED  
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PROJECT: Grand Prize

HOLE NUMBER: GP3A

Page: 8.

LV. PRESS

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA												
From	To	m	%		Sample No.	From	To	Rec. %	Sn	As	Cu	Pb	Zn	Ag	Bi	Sn	Sn sol.
				(b) FABRIC: Poorly-sorted "psammitic", flow-structured fragmental (lithic-vitric-crystal tuff).													
				(c) ACCESSORIES: Minor xenolithic clasts of shale, silty shale. Minor sideritic carbonate stainings. Minor trace pyrite.													
				(d) COMMENTS: Thoroughly argillised acid tuff. Sub aerial characteristics, apparently a flow or autobrecciated ignimbrite. Could represent a useful marker horizon.													
				PETROLOGY: (C.M.S.) 481.5m													
				(a) CLASSIFICATION - COMPOSITION: Chloritised Conglomerate. Framework of phlogopitised/retrogressively chloritised basalt, microgabbro, minor labile psammopelite clasts. Matrix of quartz, variably chloritised phlogopite. Disseminated pyrite, pyritised pyrrhotite.													
				(b) FABRIC: Relict, poorly-sorted, conglomeratic.													
				(c) ACCESSORIES: Detrital "volcanic" quartz grains, rare detrital chromite. Minor sideritic carbonate.													
				(d) COMMENTS: Altered basic-volcanomict conglomerate, similar to the "basalt" conglomerates in S 764, 947A, 969. Retrograde assemblage similar to 464.8m. No detectable cassiterite.													
481.7	506.8	24.1	96	LAMINATED SHALE: Hodge Slate.	1329	482.0	483.0	100	25	<100	55	20	1900	<0.5	<10		
				Purple-grey to grey fine grained laminated silicified shale	1328	483.0	484.0	100	20	100	70	10	1000	<0.5	<10		
				with minor sandstone interbeds. Minor conglomerate beds with	1327	484.0	485.0	100	35	<100	70	20	450	<0.5	10		
				fragments <3mm in diameter occur between 482.0-487.0m.	1326	485.0	486.0	100	30	100	160	15	880	<0.5	<10		
					1325	486.0	487.0	100	20	<100	120	5	120	<0.5	<10		
				MINERALIZATION AND ALTERATION: Fine grained pyrite occurs parallel to bedding (syngenetic?) disseminated through the shale and	1324	487.0	488.0	100	35	<100	95	15	105	<0.5	10		
				as framboids (1-3mm in diameter) giving a spotty texture to	1323	488.0	489.0	100	35	<100	80	25	105	<0.5	10		
					1322	489.0	490.0	100	35	100	220	25	200	<0.5	10		





GOLD FIELDS EXPLORATION PTY. LIMITED  
**DRILL CORE LOG AND ASSAY DATA**

PROJECT: Grand Prize

HOLE NUMBER: GP3A

Page: 11.

ULV. PRESS

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA ppm - ANALABS										RENISON		
From	To	m	%		Sample No.	From	To	Rec. %	Sn	As	Cu	Pb	Zn	Ag	Bi	Sn	Sn(sol)
				"intraclastic" vein. No detectable cassiterite.													
31.8	578.1	45.3	98	ALTERED CONGLOMERATE: Red Lead Conglomerate.	1279	532.0	533.0	100	830	<100	420	20	65	<0.5	<10	-	-
				Highly altered conglomerate consisting of large (10-30mm), sub	1278	533.0	534.0	100	1750	<100	710	5	125	<0.5	<10	1310	200
				rounded to rounded, variably chloritized, actinolised, tourmalin-	1277	534.0	535.0	100	560	100	45	35	165	<0.5	<10	-	-
				ised clasts of basalt, siltstone, carbonate and minor chert.	1276	535.0	536.0	100	680	<100	790	10	155	1	<10	-	-
				These occur in a matrix of smaller (1-10mm) sub angular to sub	1275	536.0	537.0	100	650	100	330	20	135	0.5	20	-	-
				rounded clasts of purple, siltstone, grey cherts and basalt.	1355	537.0	538.0	30	330	<100	800	<10	225	<0.5	<10		
					1356	538.0	539.0	97	490	<100	1300	10	180	0.5	<10		
				ALTERATION AND MINERALIZATION: Alteration is variable from	1357	539.0	540.0	97	310	100	50	10	95	<0.5	<10		
				minor actinolite, tourmaline alteration of the matrix to whole	1358	540.0	541.0	97	420	<100	5	30	80	<0.5	<10		
				rock alteration. Tourmalinisation appears to increase downhole.	1359	541.0	542.0	100	230	<100	5	15	80	<0.5	<10		
				Pyrite pyrrhotite mineralization only occurs in minor quantities	1360	542.0	543.0	100	150	<100	<5	30	75	<0.5	<10		
				(<2%), possibly related to jointing in particular at:	1361	543.0	544.0	100	160	<100	<5	15	60	<0.5	<10		
				535.5-531.7m	1362	544.0	545.0	100	200	<100	<5	35	80	<0.5	<10		
				564 -568.7m	1363	545.0	546.0	100	180	<100	<5	25	75	<0.5	<10		
				Some clasts show replacement by axinite associated with pyrite-	1364	546.0	547.0	100	170	<100	<5	5	80	<0.5	<10		
				chalcopyrite mineralization e.g. at 554.4-558.8 where there occurs	1365	547.0	548.0	100	260	100	<5	15	85	<0.5	<10		
				a zone of clasts replaced by pink axinite with up to 5% pyrite	1366	548.0	549.0	100	310	<100	<5	15	115	<0.5	<10		
				and very minor chalcopyrite.	1367	549.0	550.0	100	230	<100	<5	5	90	<0.5	<10		
					1368	550.0	551.0	100	290	<100	5	10	95	<0.5	<10		
				PETROLOGY: (C.M.S) 536.9m	1369	551.0	552.0	100	340	<100	<5	10	75	<0.5	<10		
					1370	552.0	553.0	100	420	<100	415	15	185	<0.5	<10		
			(a)	CLASSIFICATION - COMPOSITION: Altered Breccia. Clasts of various-	1371	553.0	554.0	97	240	100	10	5	75	0.5	10		
				ly chloritised, tourmalinised or actinolitised, sphene-stained	1372	554.0	555.0	97	620	<100	90	85	155	<0.5	10		
				labile psammopelite in a matrix of actinolite with zones of	1373	555.0	556.0	97	540	<100	15	55	240	<0.5	<10		
				massive schorl; patchy pyritised pyrrhotite.	1374	556.0	557.0	100	610	<100	235	325	420	<0.5	<10		
					1375	557.0	558.0	100	500	100	10	50	210	<0.5	10		
			(b)	FABRIC: Ill-defined angular breccia with a medium-grained corros-	1376	558.0	559.0	100	340	<100	5	55	170	<0.5	10		
				ive replacive matrix.	1377	559.0	560.0	100	540	<100	30	20	160	<0.5	10		
					1378	560.0	561.0	100	540	<100	20	110	345	<0.5	<10		
			(c)	ACCESSORIES: Minor vugs quartz in matrix. Disseminated relict	1370	561.0	562.0	100	310	<100	5	40	135	0.5	20		
				detrital chromite.	1380	562.0	563.0	100	290	<100	5	45	90	<0.5	10		
					1381	563.0	564.0	100	420	<100	5	25	140	<0.5	<10		
			(d)	COMMENTS: Close affinities with 517.6m, but with relatively	1382	564.0	565.0	100	440	5800	220	80	205	<0.5	10		

491056

GOLD FIELDS EXPLORATION PTY. LIMITED  
**DRILL CORE LOG AND ASSAY DATA**

PROJECT: Grand Prize

HOLE NUMBER: GP3A

Page: 12.

LV. PRESS

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA ppm - ANALABS										RENISON		
From	To	m	%		Sample No.	From	To	Rec. %	Sn	As	Cu	Pb	Zn	Ag	Bi	Sn	Sn(sol)
				abundant metasomatic schorl. Brecciated conglomerate-type characteristics. No detectable cassiterite.	1383	565.0	566.0	100	1100	<100	285	45	160	<0.5	<10	980	150
					1384	566.0	567.0	100	620	<100	40	80	220	<0.5	<10		
					1385	567.0	568.0	100	650	<100	15	30	210	<0.5	<10		
				PETROLOGY: (C.M.S.) 545.1m	1386	568.0	569.0	100	660	100	10	25	185	<0.5	<10		
					1387	569.0	570.0	100	750	<100	5	50	155	0.5	<10		
				(a) CLASSIFICATION - COMPOSITION: Altered Conglomerate.	1388	570.0	571.0	100	370	<100	5	5	170	<0.5	<10		
				Framework of tremolite-stained labile pelite, psammopelite;	1389	571.0	572.0	95	4500	<100	10	25	160	<0.5	<10	3840	200
				relatively tremolitised basalt-microgabbro clasts, minor "volcanic"	1390	572.0	573.0	92	3800	<100	25	55	180	<0.5	10	3770	200
				quartz grains. Variably tremolitised labile pelitic matrix.	1391	573.0	574.0	92	4400	<100	30	85	250	<0.5	20	2340	200
					1392	574.0	575.0	100	700	<100	10	35	170	<0.5	<10	600	200
				(b) FABRIC: Poorly-sorted, conglomeratic. Moderately sheared.	1393	575.0	576.0	100	1350	<100	25	155	520	<0.5	10	1110	300
					1394	576.0	577.0	100	900	<100	15	35	210	<0.5	<10		
				(c) ACCESSORIES: "Megacrasts" of thoroughly tremolitised limestone.	1395	577.0	578.0	100	360	<100	5	25	195	<0.5	<10		
				Detrital chromite, opaques. Secondary sphene.													
				(d) COMMENTS: Moderately sheared, extensively tremolitised polymict conglomerate. No detectable cassiterite.													
578.1	579.5	1.3	93	BRECCIATED ZONE:	1396	578.0	579.0	95	300	<100	45	250	550	<0.5	<10		
				Brecciated zone (probably fault) consisting of dark green clay	1397	579.0	580.0	84	260	<100	5	5	140	<0.5	<10		
				angular, altered, basaltic clasts. A minor zone of brecciated													
				rock is rewelded with dolomite(?). No significant sulphides													
				occur within this zone.													
579.5	580.9	1.3	93	INTERBEDDED PYROCLASTIC AND CONGLOMERATE:	1398	580.0	581.0	93	80	<100	5	5	110	<0.5	<10		
				This unit is extensively altered by actinolite and primary textures													
				are difficult to recognise. The pyroclastic (lithic vitric													
				crystal tuff) contains numerous lithic clasts (tourmalinised)													
				in a fine grained devitrified? matrix with "flow" or compaction													
				textures of ignimbrites. The conglomerate is similar to													
				the previously described Red Lead Conglomerate.													
580.9	586.2	4.1	78	ALTERED PYROCLASTIC	1399	581.0	582.0	67	90	100	5	5	135	<0.5	<10		
				Actinolised and tourmalinised pyroclastic probably a lithic	1400	582.0	583.0	83	30	<100	5	<5	120	<0.5	<10		
				vitric crystal tuff. Lithic clasts occur with a fine grained	2301	583.0	584.0	64	30	<100	5	<5	145	<0.5	<10		

491057

GOLD FIELDS EXPLORATION PTY. LIMITED  
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HOLE NUMBER: GP3A

Page: 13.

INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA ppm										ANALABS		RENISON	
From	To	m	%		Sample No.	From	To	Rec. %	Sn	As	Cu	Pb	Zn	Ag	Bi	Sn	Sn(sol)	
				devitrified matrix with fine to coarse grained feldspar crystals and a "flow" or compaction texture akin to ignimbrites. This unit has textural similarity to the less altered pyroclastic found at the base of the Red Lead Conglomerate unit in GP4.	2302	584.0	585.0	78	60	<100	5	<5	160	<0.5	<10			
					2303	585.0	586.0	93	110	<100	20	15	180	<0.5	10			
586.2	590.5	4.3	100	ALTERED BASALT: Melba Spilite. Dark green uniformly fine grained basic lava with zones of coarser grained pyroclastics (crystal lithic tuffs), the rock is extensively actinolised with disseminated pyrite. Veins of actinolite with minor chalcopyrite/pyrite occur. No carbonate is present.	2304	586.0	587.0	100	75	<100	60	10	95	<0.5	<10			
					2305	587.0	588.0	100	50	<100	10	<5	110	<0.5	<10			
					2306	588.0	589.0	100	40	100	410	<5	140	<0.5	<10			
					2307	589.0	589.9	100	35	<100	25	<5	125	<0.5	<10			
					2308	589.9	590.5	100	10	<100	170	<5	135	<0.5	<10			
					2309	590.5	591.5	100	140	<100	30	10	100	<0.5	<10			
590.5	592.1	1.6	100	GRADATIONAL BOUNDARY Mixed zone of fine grained altered basic volcanics occurs with coarse grained recrystallised carbonate. Actinolite alteration is extensive with minor tourmaline and disseminated pyrrhotite.	2310	591.5	592.1	100	5	100	30	25	155	<0.5	<10			
592.1	600.9	8.4	96	ALTERED CARBONATE ROCK: Altered pale blue grey fine to medium grained carbonate (probably calcite) with disseminated actinolite and spotty occurrences of black tourmaline? It is generally a massive unit but relict textures of lithic fragments occur (e.g. 594.5m) where a chaotic mixture of sub rounded to angular actinolite/tourmaline rich clasts occur in a predominant carbonate matrix. Serpentinisation of the unit occurs at 598.7-600.9m.	2311	592.1	593.4	100	6	<100	30	<5	115	<0.5	10			
					2312	593.4	594.5	100	15	<100	90	<5	120	<0.5	<10			
					2313	594.5	595.5	100	10	<100	605	<5	155	<0.5	<10			
					2314	595.5	596.2	100	<3	<100	155	<5	170	<0.5	<10			
					2315	596.2	596.8	100	<10	<100	145	<5	175	<0.5	<10			
					2316	596.8	597.8	100	<3	<100	80	10	130	<0.5	<10			
					2317	597.8	598.8	93	<3	<100	75	55	140	<0.5	10			
					2318	598.8	599.8	93	<3	<100	55	40	185	<0.5	<10			
					2319	599.8	600.9	93	<3	<100	15	170	185	<0.5	<10			
				MINERALIZATION: Disseminated pyrrhotite (1-2%) and minor stringers of pyrrhotite at 595.2m and 595.6m with some sphalerite.														
600.4	624.3	22.7	97	SERPENTINISED ULTRABASIC ROCK: Serpentine Hill Complex. Black to dark green medium grained serpentised ultrabasic. Veins of magnetite and dolomite throughout.  E.O.H. at 624.3m	2320	600.9	601.9	100	<3	<100	<5	45	75	<0.5	<10			
					2321	601.9	602.9	100	<3	<100	<5	25	50	<0.5	<10			
					2322	602.9	603.9	100	<3	<100	<5	<5	75	<0.5	<10			
					2323	603.9	604.9	100	<3	<100	<5	<5	60	<0.5	<10			
					2324	604.9	605.9	100	<3	<100	<5	<5	60	0.5	<10			





