





GOLD FIELDS EXPLORATION PTY. LIMITED

PROJECT: Grand Prize E.L. 42/71

DRILL CORE LOG AND ASSAY DATA

HOLE NUMBER: GP 4

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INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA (all in ppm)												
From	To	m	%		Sample No.	From	To	Rec. %	Sn	Sn(Sol)	As	WO <sub>3</sub>	Cu	Pb	Zn	Ag	Bi
				Minor calcite veinlets occur in parts of the core where the matrix is carbonate rich e.g. 141.8-145.2m, 149.5-151.9m, 155.7-157.0m, 168.0-169.0m.													
				Faults: 41.4-41.8m: weathered broken zone possibly minor fault.	3935	42.6	43.8	47	10	-	<10	<10	45	50	80	1	10
				82.4-82.7m: brecciated zone with pyrite mineralisation.	3936	50.7	52.1	67	10	-	<10	10	30	100	80	1	10
				113.4-113.5m: broken zone.	3937	52.1	52.4	98	<10	-	<10	10	30	170	105	1	10
				133.3-134m : broken zone.	3938	82.4	82.7	100	<10	-	20	20	40	90	465	1	20
				191.8-194.2m: broken zone with minor weathered white clay.	3985	133.3	134.0	57	10	<100	30	20	35	480	870	1	10
				Recovery 38%. Fault.	3939	173.6	173.65	100	30	-	40	20	90	310	1410	2	30
				194.7-196.0m: Broken zone. Recovery 54%.	3940	191.8	193.0	38	20	-	30	40	40	1030	3070	1	10
				B.C.A.'S: 6.7m 45° 122.7m 55°	3941	193.0	194.2	38	10	-	10	50	20	1370	6300	1	10
				44.3m-55.8m 40° 129.5m 60°	3942	194.2	194.7	100	<10	-	20	40	50	950	3020	1	20
				58.6m 45° 131.1m 70°	3943	194.7	196.0	54	<10	-	20	20	60	620	2150	1	20
				61.4m-77.3m 50° 133.0m 60°													
				76.2m 55° 135.4m 70°													
				77.3m 70° 142.0m-151.4m 70°													
				78.2m 65° 155.0m-170.5m 65°													
				79.9m-82.2m 50° 172.4m 70°													
				82.8m 40° 175.4m-177.2m 65°													
				84.1m-92.1m 50° 182.0m-184.6m 70°													
				95.9m 60° 188.3m 65°													
				98.0m 55° 190.2m 50°													
				103.1m 50° 191.6m-200.0m 60°													
				106.0m 60° 205.4m 65°													
				109.0m-110.6m 55° 210.0m-218.5m 60°													
				113.7m-120.0m 60°	3786	217.0	218.0	100	10	<100	<10	20	75	170	800	1	20
218.3	309.5	83.8	92	CONGLOMERATE: Red Lead Conglomerate.	3787	218.0	219.0	100	20	<100	10	20	40	170	860	1	20
				Grey green poorly sorted conglomerate with large (10-100mm)	3788	219.0	220.0	100	10	<100	10	10	95	220	90	2	30
				subrounded clast of carbonate, basalt and minor chert with	3789	220.0	221.0	100	10	<100	<10	<10	100	70	80	3	50
				smaller clasts (<10mm) of sub angular to subrounded basalt,	3790	221.0	222.0	100	10	<100	<10	20	65	40	80	2	40
				siltstone, grit, sandstone and minor carbonate in a carbonate	3791	222.0	223.0	100	<10	<100	<10	10	60	40	100	2	40
				rich silt matrix. Some stypolite development occurs around	3792	223.0	224.0	100	10	<100	<10	20	85	40	175	2	30
				carbonate fragments.	3793	224.0	225.0	100	10	<100	<10	20	95	40	90	2	30

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INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA (all in ppm)												
From	To	m	%		Sample No	From	To	Rec. %	Sn	Sn(so <sub>2</sub> )	As	WO <sub>3</sub>	Cu	Pb	Zn	Ag	Bi
				From 303.3-309.5m. There is a significant decrease in carbonate cobbles and carbonate in the matrix. The matrix becomes increasingly tuffaceous and a number of thin (<40m) tuff beds occur.	3794	225.0	226.0	100	10	<100	<10	20	70	330	110	2	30
				e.g. 306.1: green grey fine to medium grained felsic crystal tuff. The crystals are angular to sub angular indicating the possibility of some reworking.	3795	226.0	227.0	100	10	<100	<10	10	60	40	105	2	30
					3796	227.0	228.0	100	20	<100	10	20	50	30	85	3	40
					3797	228.0	229.0	100	20	<100	10	20	55	90	90	2	30
					3798	229.0	230.0	100	10	<100	<10	10	75	890	90	2	20
					3799	230.0	231.0	95	20	<100	10	10	95	90	120	3	50
				307.1, 308.6, 308.8: Beds of lithic crystal tuff with angular elongate clasts of actinolite altered fine grained tuff? in a matrix of fine grained feldspar crystals and flattened vitric fragments.	3800	231.0	232.0	95	20	<100	10	20	55	80	240	3	40
					3801	232.0	233.0	90	30	<100	10	20	40	40	1070	2	40
					3802	233.0	234.0	90	10	<100	10	10	30	40	150	3	40
					3803	234.0	235.0	90	20	<100	<10	30	60	40	670	2	30
				<u>Alteration and Mineralisation:</u>	3804	235.0	236.0	90	20	<100	<10	20	25	40	1710	2	40
				Alteration in the upper part of the unit is confined to calcite recrystallisation within the matrix and carbonate cobbles, minor jasperoidal replacement, very minor axinite replacement	3805	236.0	237.0	90	10	<100	<10	30	70	60	1470	2	30
					3806	237.0	238.0	90	10	<100	10	20	50	40	1720	3	40
					3807	238.0	239.0	100	10	<100	10	20	50	70	1040	3	40
				associated with traces of pyrite in carbonate cobbles. At 233.4-254.3m. The rocks become weathered with leached sand rich carbonate cobbles.	3808	239.0	240.0	89	20	<100	10	30	40	100	1570	2	40
					3809	240.0	241.0	80	10	<100	<10	30	140	360	2520	2	40
					3810	241.0	242.0	85	20	<100	10	20	80	80	2190	2	30
				From 254.5m. The carbonate cobbles are partially altered to dolomite with an increasing downhole of a green acicular mineral epidote(?) and bladed pink-white axinite with only minor pyrite.	3811	242.0	243.0	90	10	<100	<10	40	70	90	5100	2	40
					3812	243.0	244.0	90	20	<100	<10	40	45	60	3680	2	40
					3813	244.0	245.0	85	10	<100	<10	10	620	40	1890	2	40
				From 262.0m. Actinolite and minor tourmaline alteration gradually increases downhole from cobble rim replacement to total replacement of carbonate within cobbles and matrix.	3814	245.0	246.0	85	<10	<100	<10	10	20	70	3270	2	40
					3815	246.0	247.0	85	<10	<100	<10	20	15	70	2510	2	40
					3816	247.0	248.0	77	<10	<100	<10	20	140	40	1890	3	40
				From 264.7m. Pyrrhotite mineralisation occurs as rims around carbonate cobbles and disseminated in the matrix, associated with minor chalcopyrite and sphalerite mineralisation.	3817	248.0	249.0	77	<10	<100	<10	20	70	40	930	2	30
					3818	249.0	250.0	77	<10	<100	<10	20	55	130	1080	2	30
					3819	250.0	251.0	54	<10	<100	<10	30	10	40	1140	2	40
				Pyrrhotite-chalcopyrite mineralisation of 2-10% occurs at a maximum in the vicinity of a pyrrhotite, calcite, chalcopyrite vein at 278.1m but decreases downhole to 297.3m from where within the conglomerate there is only an occasional grain of sulphide.	3820	251.0	252.0	69	<10	<100	<10	20	20	30	1030	2	30
					3821	252.0	253.0	52	<10	<100	<10	20	40	80	1490	2	30
					3822	253.0	254.0	43	<10	<100	<10	20	15	120	1600	2	30
					3823	254.0	255.0	77	10	<100	<10	30	45	40	1650	2	30
					3824	255.0	256.0	77	<10	<100	<10	20	80	40	2530	2	30
				<u>Fault: 244.5-254.5m. Weathered zone with poor recovery (58%) may be an unmineralised fault zone.</u>	3825	256.0	257.0	77	10	<100	10	30	30	90	2000	2	30
					3826	257.0	258.0	94	<10	<100	<10	40	65	40	1850	2	40
					3827	258.0	259.0	95	<10	<100	<10	<10	30	30	2300	2	40
				B.C.A. 306.0m 60°	3828	259.0	260.0	97	<10	<100	<10	20	30	40	900	2	40

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INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA												
From	To	m	%		Sample No.	From	To	Rec. %	Sn	Sn(Sol)	As	WO <sub>3</sub>	Cu	Pb	Zn	As	Bi
						3829	260.0	261.0	97	<10	<100	10	20	70	30	1330	2
					3830	261.0	262.0	96	10	<100	<10	<10	50	110	2300	2	40
					3831	262.0	263.0	93	<10	<100	10	20	25	310	2010	3	40
					3832	263.0	264.0	98	10	<100	10	20	35	40	2610	2	30
					3833	264.0	265.0	100	100	<100	70	40	85	1840	4920	9	30
					3834	265.0	266.0	95	10	<100	10	20	75	50	1010	2	30
					3835	266.0	267.0	95	10	<100	<10	20	60	90	315	2	30
					3836	267.0	268.0	93	<10	<100	10	10	90	150	365	2	30
					3837	268.0	269.0	93	<10	<100	<10	<10	100	260	90	2	40
					3838	269.0	270.0	93	<10	<100	<10	10	50	70	70	2	40
					3839	270.0	271.0	100	20	100	<10	30	60	90	70	2	40
					3840	271.0	272.0	100	20	100	10	20	50	180	100	2	40
					3841	272.0	273.0	100	10	100	<10	10	65	90	80	1	30
					3842	273.0	274.0	100	20	100	<10	<10	45	280	70	2	50
					3843	274.0	275.0	100	10	100	<10	<10	65	120	80	2	30
					3844	275.0	276.0	100	<10	100	<10	<10	170	100	75	2	50
					3845	276.0	277.0	100	10	100	<10	10	50	420	95	2	40
					3846	277.0	278.0	100	10	100	<10	10	80	410	125	2	30
					3847	278.0	279.0	100	10	100	10	10	170	310	100	2	30
					3848	279.0	280.0	100	<30	100	10	10	70	30	213	1	20
					3849	280.0	281.0	100	20	100	10	<10	260	410	100	2	40
					3850	281.0	282.0	100	20	100	<10	10	40	140	95	2	30
					3851	282.0	283.0	100	20	100	<10	10	100	80	105	2	30
					3852	283.0	284.0	100	50	100	<10	10	35	80	1000	2	20
					3853	284.0	285.0	100	20	100	<10	10	45	40	410	2	20
					3854	285.0	286.0	100	20	100	<10	20	235	60	960	2	30
					3855	286.0	287.0	100	10	<100	<10	10	95	260	105	2	30
					3856	287.0	288.0	100	10	<100	<10	20	130	140	110	2	30
					3857	288.0	289.0	100	30	<100	10	20	2260	80	200	4	30
					3858	289.0	290.0	100	10	<100	<10	20	820	100	820	2	30
					3859	290.0	291.0	87	10	<100	<10	30	3470	40	1940	5	20
					3860	291.0	292.0	87	20	<100	20	60	18500	50	281	1	30
					3861	292.0	293.0	91	10	<100	<10	10	990	30	230	2	20
					3862	293.0	294.0	95	20	<100	10	10	85	50	130	2	20
					3863	294.0	295.0	100	30	<100	10	10	75	100	100	2	30

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INTERVAL		RECOVERY		DESCRIPTION	ASSAY DATA (all in ppm)												
From	To	m	%		Sample No.	From	To	Rec. %	Sn	Sn(Sol)	As	WO <sub>3</sub>	Cu	Pb	Zn	Ag	Bi
					3864	295.0	296.0	100	30	<100	<10	10	75	90	85	1	20
					3865	296.0	297.0	98	20	<100	<10	20	60	90	120	1	20
					3866	297.0	298.0	95	10	<100	10	10	580	50	90	1	20
					3867	298.0	299.0	95	20	<100	<10	10	40	50	100	1	30
					3868	299.0	300.0	100	20	<100	<10	10	20	50	435	2	30
					3869	300.0	301.0	100	20	<100	<10	30	20	50	310	2	30
					3870	301.0	302.0	100	30	<100	<10	10	60	70	250	2	30
					3871	302.0	303.0	100	30	<100	<10	10	220	50	275	2	30
					3872	303.0	304.0	100	10	<100	10	20	10	50	120	2	30
					3873	304.0	305.0	100	20	<100	<10	20	30	30	110	2	30
					3874	305.0	306.0	100	10	<100	<10	10	25	40	120	2	30
					3875	306.0	307.0	100	10	<100	<10	10	10	50	100	2	30
					3876	307.0	308.0	100	10	<100	10	<10	20	50	205	2	30
					3877	308.0	309.5	100	<10	<100	10	20	10	70	130	2	40
309.5	310.5	1.0	100	<p>PYROCLASTIC:</p> <p>The Pale green andesitic to basic vitric crystal lithic tuff? consists predominantly of a layered devitrified vitric tuff? with fine to coarse grained feldspar crystals and rounded to subrounded lithic fragments of fine grained tuff?, carbonate rich tuff? and minor chert. Rounded chert fragments indicate the unit may be partially reworked. Some carbonate rich cherts have been totally replaced by axinite with minor pyrrhotite mineralisation.</p>	3878	309.5	310.5	100	20	<100	20	20	25	40	1090	2	30
310.5	320.2	9.7	100	<p>SPILITE: Melba Spilite.</p> <p>Dark green, to fine grained basalt with minor irregular zones of fine to coarse tuffaceous and siliceous sediment. On surface outcrop these sediments occur between pillows of the basalt. The pillow structure of the basalt is not obvious within the drill hole. Veinlets of calcite occur throughout. The basalt has been partially altered to actinolite and minor axinite.</p>	3879	310.5	311.5	100	10	<100	10	10	15	150	150	1	30

