

ZEPHERUS TASMANIA DRILL LOG

Prospect BALFOUR Hole no. ZDB 16 143

DEPTH (m)		ANGLE TO CORE AXIS		GEOLOGICAL DESCRIPTION	ALTERATION	MINERALIZATION			Fracturing	Sample No	Ficn (m)	To (m)	Rec (m)	ASSAYS										
		S ₀	S ₁			P ₁	As	Mo						Ag	Cu	Pb	Zn	Fe	As	Hg	U	Th		
33				Pearl white siltstone. Lamination evident.						933696	0	5	5	25	15	55	80	385	25	15	1	1	1	20
										933697	5	6	1	25	15	5	20	425	15	17	1	1	1	1
35				Very earthy black siltstone	Chertic?					698	6	7	1	40	35	210	115	1150	21	550	0.1	6	1	1
38		30°		laminated, banded grey to green porous siltstone. Green bands very chertic. Alteration?						699	7	8	1	45	1	25	20	1040	15	170	1	6	0.5	1
43				White puggy clay - altered shale	Sericite?	✓				700	2	9	0.8	15	10	245	170	300	115	80	0.8	1	0.5	1
				Green chlorite siliceous graded siltstone. Pyrite at base						701	4	10	1	45	10	260	85	200	2.8	27	1.2	1	0.5	1
				Graying to white porous siltstone						702	10	11	1	15	10	185	65	30	300	55	2.3	1	1.0	1
47				Homogeneous grey green siltstone. Lamination evident in part. Minor sulphides.						703	11	12	1	55	15	130	135	76	445	56	0.5	1	1.5	1
										704	12	13	1	15	20	15	40	365	2.30	67	1	1	1.0	1
49										705	13	14	1	55	15	170	60	415	1.70	18	1.3	1	1.0	1
										706	14	15	1	85	10	220	80	600	3.25	80	1.3	2	0.5	1
										707	15	16	1	45	20	25	15	705	1.20	22	1.0	1	1.5	1
										708	16	17	1	20	30	10	5	570	3.20	8	1	1	1	1
										709	17	18	1	45	10	5	5	30	2.15	16	1	1	1.5	1
										710	18	20	1											
35				Fine laminated banded grey to white siltstone. Disrupted bedding and some laminae. Pyrite in basal white sandy layers.		✓				711	20	22	1											
										712	22	24	1											
										713	24	26	2											
										714	26	28	2											
										715	28	30	2											
										716	30	32	2											
										717	32	34	2											
										718	34	36	2											
49		30°		Graded white to grey banded siltstone. Fine laminae within beds. Pyrite formed along cleavages. Concretion, scar and fill. Minor sandstone dikes. Siltstone generally etched and slumped.		✓					719	36	37	1	25	10	75	5	110	2.25	5	1	1	1
										720	37	38	1	95	15	65	5	145	2.15	240	1	1	1	1
										721	38	39	1	20	1	25	5	10	8.55	17	0.1	1	1	
										722	39	40	1	20	1	25	1	65	3.55	4	1	1	1	

805044

DEPTH (m)		LITHO	ANG. CORE AXIS		GEOLOGICAL DESCRIPTION	Alteration	MINERALIZATION			Fracturing	Sample No.	From (m)	To (m)	Asc (m)	ASSAYS																										
m	to		S0	S1			P1									Sn	W	Cu	Pb	Zn	Fe	As	Hg	Bi	Pb																
1042					Gradational change to finely laminated and finely banded siltstone. Bedding laminae very irregular. Pyrite disseminated along white sandy layers. Pyrochroite also noted.						933.753	80	82	2																											
												754	82	84	2																										
												755	84	86	2																										
												756	86	88	2																										
												757	88	90	2																										
												758	90	92	2																										
												759	92	94	2																										
												760	94	96	2																										
												761	96	98	2																										
												762	98	100	2																										
												763	100	102	2																										
			0-10°	60°								764	102	103	0.75	20	10	5	5	115	9200	6	1	8	10																
												765	103	104	1	35	10	15	5	55	175	5	0.1	1	20																
											766	104	105	1	35	10	15	5	60	140	3	0.1	1	25																	
											767	105	106	1	65	10	35	5	560	229	10	0.2	1	25																	
											768	106	107	1	220	10	20	5	380	300	150	0.2	1	20																	
											769	107	108	1	20	10	25	5	90	220	0.1	0.2	1	20																	
											770	108	109	1	40	10	20	5	150	265	3	0.2	1	20																	
											771	109	110	1	5000	190	295	70	2050	82	1000	0.5	14	10																	
											772	110	111	1	2500	140	280	55	785	5.6	1000	0.5	10	10																	
											773	111	112	1	35	20	30	10	95	2.4	6	0.2	1	25																	
											774	112	113	1	140	25	50	15	250	2.1	98	0.2	1	20																	
											775	113	114	1	120	25	15	35	760	225	500	0.6	1	15																	
											776	114	115	1	45	10	20	10	125	2.65	10	0.2	1	10																	
											777	115	116	1	90	35	45	5	1300	2.65	10	0.1	1	20																	
											778	116	117	1	40	20	30	10	70	2.6	6	0.2	1	10																	
											779	117	118	1	150	25	60	10	515	2.35	100	0.2	1	10																	

Finely laminated banded black and white irregularly siltstone. Disseminated pyrite/pyrochroite blabs (~1%)
Bedding laminae very disturbed.

GEOPEKO TASHMANIA DRILL LOG

Prospect BALFOUR Hole no. DD4 b

Sheet 4
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DEPTH (m)		ANGLE TO CORE AXIS	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION			Fracturing	Sample no	From (m)	To (m)	Rec (m)	ASSAYS									
from	to				0°	5°	py						oxide	silicate	Si	W	Ca	Fe	Zn	Fe	As	Pb
121.2	134.75		Graded sandstone/siltstone Banded dark grey to white. Sandstone clasts deformed by slippage along bedding planes. Disseminated pyrite, pyrite blebs. Minor semi pervasive fractures in part.					933 780	118	119	L	15	15	25	X	80	195	23	0.2	X	1	
								781	119	120	L	30	30	20	5	135	230	4	0.2	X	1	
								782	120	121	L	260	25	20	8	300	225	82	0.1	X	1	
								783	121	122	L	15	55	10	X	30	285	5	0.2	X	1	
								784	122	123	L	20	10	20	X	50	295	5	0.2	X	1	
								785	123	124	L	20	30	15	X	55	280	6	X	X	1	
								786	124	125	L	40	20	20	X	105	315	4	0.2	X	1	
								787	125	126	L	40	140	20	X	70	275	5	0.1	X	1	
								788	126	127.50	L	20	60	5	X	40	230	7	0.1	X	1	
								789	127.50	128	0.60	25	45	15	X	35	250	4	0.1	X	1	
								790	128	129	L	20	45	20	X	35	265	11	0.2	X	0	
								933 501	129	130	L	10	50	15	20	40	217	9	0.2	X	1	
								502	130	131	L	35	30	25	25	140	247	10	0.2	X	2	
								503	131	132	L	260	50	75	25	165	273	39	0.2	X	2	
								504	132	133	L	20	15	15	23	75	26	6	0.2	X	1	
								505	133	134	L	40	50	30	40	120	29	32	0.2	X	1	
								506	134	135	L	55	45	X	25	90	215	6	0.1	X	15	
138.75			Gradual change to more silified finely banded siltstone - very irregularly distributed - Minor veinlets < 3mm					507	135	136	L	20	55	35	30	70	21	100	0.2	X	16	
			At 138.9m Disjointed quartz veinlets. Pyrite replacing sediment over 200 zone. Specks of calcite evident					508	136	137	L	110	20	95	65	120	2.2	250	0.2	6	15	
		0°	Laminar offset by cleavage					509	137	138	L	35	10	30	30	80	195	4	0.1	X	24	
								510	138	139	L	20	20	35	50	65	2.2	3	0.1	X	15	
								511	139	140	L	210	150	430	55	95	375	1000	11	12	26	
								512	140	141	L	85	50	60	30	500	175	15	0.2	X	X	
								513	141	142	L	55	20	65	85	148	2.00	11	0.5	4	15	
								514	142	143	L	90	50	20	55	375	285	8	0.5	2	15	
								515	143	145	1.4	200	270	165	45	460	275	560	0.5	10	26	
								516	145	146	L	130	310	130	25	75	225	620	0.1	8	10	
								517	146	147	L	140	35	20	35	450	475	6500	0.6	24	X	
								518	147	148	0.7	510	55	160	35	375	245	130	0.7	16	0.5	
								519	148	149.3	L	140	25	160	25	75	175	23	0.7	4	15	
								520	149.3	150	0	80	15	55	25	760	155	4	0.2	X	16	
								521	150	151.15	0.65	430	130	315	125	670	34	2700	0.7	14	31	
								522	151.15	152	0.85	840	150	225	35	525	175	2500	0.6	10	20	
								523	152	153	L	40	15	30	25	60	200	300	0.3	4	10	
								524	153	154	L	80	10	25	25	160	245	760	0.3	X	15	
								525	154	155	L	260	15	85	25	315	25	23	0.2	X	15	

805047

At 151.75 2 vein cement 0.5cm thick 75% calcite with dipping
Quartz, calcite, pyrite, consistent

GEOPEKO TASMANIA DRILL LOG

805048 Prospect *Balfour* Hole no. *020*

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SHEET 5 OF 5

DEPTH (m)		ANGLE TO CORE AXIS	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION			Fracturing	Sample No	From (m)	To (m)	Rec (m)	ASSAYS							LOG ANALYSIS			
From	To				So	Si	Pt						Cu	Fe	Sn	N	Cu	Zn	Fe	As	Ag	Au	g
156.6	174.35		Grey green to grey massive to slightly laminated siltstone Disseminated pyrite and pyrrhotite throughout ~3% horizons ~ 0.5cm thickness						911	157	158	1	200	20	140	95	615	155	16	42	0		
									524	158	159	L	160	45	240	40	245	73	05	10	10		
									530	159	160	L	1550	2250	1320	145	150	78	51	102	10		
									531	160	161	L	55	X	80	20	50	26	X	2	X		
			Vein 159-161 4cm thick. Quartz, pyrite, chalcopyrite, arsenic, wolframite sphaerulic siderite ~90° to LCA.						532	161	162	L	85	20	50	25	25	01	6	10			
			Zone between 159-159.7 very silicified with disseminated pyrite, chalcopyrite along bedding planes	Silicification					533	162	163	L	65	X	65	20	65	26	X	2	0		
			163-15. Quartz, pyrite, arsenopyrite vein. 10cm thick = 30 LCA						534	163	164	L	110	X	60	25	80	308	02	X	X		
									535	164	165	L	90	X	100	5	45	115	1	03	X		
									536	165	166	L	260	X	170	10	40	23	1	02	X		
									537	166	167	L	25	X	15	5	100	405	11	01	X		
									538	167	168	L	15	X	25	5	110	535	11	X	X		
									539	168	169	L	15	X	20	5	50	44	12	01	X		
									540	169	170	L	35	X	30	20	25	385	4	01	X		
									541	170	171	L	20	X	25	20	120	44	02	03	X		
									542	171	172	L	40	X	15	10	120	52	2	02	X		
									543	172	173	L	9	X	35	20	100	52	8	02	X		
									544	173	174	L	15	X	60	5	75	36	190	02	10		
									545	174	175	L	75	X	100	5	200	35	1000	02	6		
									546	175	176	L	25	X	20	X	95	465	160	02	X		
									547	176	177	L	15	X	20	X	115	405	9	02	X		
									548	177	178	L	510	20	185	5	185	545	1000	01	10		
									549	178	179	L	220	10	105	10	805	425	650	03	2		
									550	179	180	L	15	X	10	55	65	360	16	04	X		
									551	180	181	L	10	X	10	15	60	36	9	04	X		
									552	181	182	L	20	X	10	15	100	655	5	03	X		
									553	182	183	L	25	X	50	15	240	445	12	03	X		
									554	183	184	L	15	X	10	5	25	34	11	03	X		
									555	184	185	L	260	10	45	10	55	385	130	41	X		
									556	185	186	L	70	10	50	X	60	325	91	03	10		
									557	186	187	L	150	X	20	5	270	325	11	04	X		
									558	187	188	L	10	X	10	15	70	36	9	03	X		
			188-189 Vein 4cm thick. Quartz, arsenic, wolframite pyrite, carbonate. 30 LCA Pipping anal. Minor unassociated silicification						559	188	189	L	1400	0-561	245	5	25	64	150	05	X		
									560	189	190	L	15	X	10	X	75	40	26	02	X		
									561	190	191	L	9	X	20	5	80	42	15	03	X		
									562	191	192	L	50	X	25	5	150	40	180	03	X		
									563	192	193	L	65	X	25	20	20	40	40	04	X		
									564	193	194	L	8	X	20	15	90	345	15	X	X		
			194-65 Vein 2cm thick. Quartz, pyrite, carbonate, arsenopyrite						565	194	195	L	8	X	20	15	90	345	15	X	X		

