GROPEKO TASMANIA DRILL LOG

Prospect *Granville East* Hole no. *DDH 1*

069

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS So	ANGLE TO CORE AXIS Bi	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION	Fracturing	Sample No.	From (m)	To (m)	Rec (m)	ASSAYS (Lab:	Sn	W	Cu	Pb	Zn	Ag	Fe	Mo	Bi	As
0	2.9				Roller Bit pre-collar																		
2.9	9.7		55°		Fine grained silicified sandstone. Quartz veins (<8mm thick randomly orientated throughout. Many veins contain sheared pyrite. Possible sericite alteration. Disseminated pyrite evident				11303 933601	2.9	4.00	0.7		15	X	20	X	10	X	0.17	1.5	X	21
									11304 933602	4.00	5.00	1		5	X	15	X	15	X	0.95	10	X	8
									11305 933603	5	6	0.55		9	X	20	X	15	X	0.16	X	X	18
									11306 933604	6	6.8	0.27		9	X	30	5	15	5	0.61	X	X	17
									11307 933605	6.8	8.7	0.26		15	X	40	X	30	X	1.95	X	X	72
9.7									11308 933606	8.7	11.10	0		10	X	20	X	25	X	1.05	X	Y	19
		Core Loss																					
	37.5				Unconsolidated Tremolite rock. Dominantly white fibrous mosaic of tremolite crystals (≈2-3 mm crystal size) Disseminated pyrite throughout. Core Recovery poor through this interval.		5-7%		11309 933607	11.1	12.2	0.13		9	X	10	X	130	X	0.2		X	21
									11310 933608	12.2	13.1	0.13		70	X	165	X	390	X	2.5		X	600
									11311 933609	13.1	14.5	0		100	X	150	X	300	X	10.0		X	1600
									11312 933610	14.5	16.1	0.5		95	X	90	5	110	0.5	2.5		6	570
									11313 933611	16.1	17.5	0		-	-								
									11314 933612	17.5	19.3	0.4		95	X	115	20	400	0.5	6.7		X	300
									11315 933613	19.3	21.4	1.17m		90	10	90	5	110	0.5	2.1		9	190
									11316 933614	21.4	22.5	0.7		110	X	165	15	160	0.5	6.1		5	230
									11317 933615	22.5	23.0	0.5		25	X	50	X	95	X	2.7		3	75
					Breccia Consolidated breccia containing clasts of silica tremolite and pyrite. Green actinolite noted around 33.4m. Siliceous bands with minor tourmaline. Pyrite throughout - appears to be later than brecciation				11319 933617	23.0	25.3	0.6		20	X	60	X	40	X	3.1		2	65
									11320 933618	25.3	25.6	0.25		25	X	60	X	25	X	2.7		2	230
									11321 933619	25.6	28.6	0.66		25	X	75	X	65	X	3.5		X	90
									11322 933620	28.6	30.6	0.40		55	X	210	15	65	1.0	100		240	230
																								57
									11323 933621	30.6	33.4	0.40		85	X	100	5	115	X	14		9	57	8
									11324 933622	33.4	34.2	0.80		35	10	80	X	100	X	69		X	16	60
									11325 933623	34.2	34.9	0.51		65	X	100	10	140	X	62		13	26	0
																								12
									11326 933624	34.9	37.5			65	X	190	5	180	0.5	9.2		29	230	0
37.5	41.5				Pyroxenite Gneissic rock. Brown fibrous radiating crystals of qualtite, which has altered from pyroxenite				11327 933625	37.5	39	1.16		200	60	435	X	1400	0.5	19.5		137	122	

GEOPEKO TASMANIA DRILL LOG

Prospect GRANVILLE EAST Hole No. DDH-1

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS Sa	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION po	MINERALISATION sphalerite	Fracturing	Sample No.	From (m)	To (m)	Rec (m)	ASSAYS (Lab) Sn	W	Cu	Pb	Zn	As	Fe	Mo	Bi	Ag
					Pyrrhotite rimmed blebs occur within the suite						KR11438 933625	39	40	1	1160	70	570	<	80	20	3.85		60	200
					Siliceous bands and veins permeate the rock						11339 933626	40	41	1	270	15	290	40	225	4.0	4.60		140	78
45	46				TASMANITE ACTINOLITE SKARN ROCK. Crosscutting						11340 933627	41	42	1	220	X	1000	X	70	1.5	2.95		10	13
					veins of serpentine. (Dark green and semi-opaque)						11341 933628	42	43	1	65	X	255	X	60	1.0	10.5		6	30
					Pyrrhotite appears as late stage veinlets and dendritic						11342 933629	43	44	1	15	45	490	X	25	X	11.0		3	16
					masses with chlorite + serpentine alteration. Blebs of						11343 933630	44	45	1	50	X	30	X	30	X	4.7		X	22
					pyrrhotite form irregular masses which are rimmed						11344 933631	45	46	1	20	X	80	X	40	X	2.9		X	20
					with pyrite						11345 933632	46	47	1	7	X	30	X	80	1.0	2.6		X	41
					SILICIFIED GREY SILTSTONE. Grey silicified siltstone						11346 933633	47	48	1	9	X	15	15	20	X	1.15	4.5	2	40
					black shale. Veinlets of quartz, pyrite, pyrrhotite						11347 933634	48	49	1	6	X	20	10	20	X	1.65	4.0	2	31
					+ tremolite/actinolite Veinlets have brown alteration associated						11348 933635	49	50	1	3	X	20	5	20	X	1.50	4.5	X	34
					with them. Veinlets dominantly less than 1mm.						11349 933636	50	51	1	X	X	65	695	290	0.5	1.50	50	X	32
											11350 933637	51	52	1	5	X	25	15	40	X	1.90	3.0	X	30
			85°								11351 933638	52	53	1	X	15	40	X	20	X	1.85	2.5	X	51
											11352 933639	53	54	1	X	X	40	80	60	X	1.50	6.0	4	16
51	51.04										11353 933640	54	55	1	3	10	25	10	15	X	1.60	3.0	X	20
					ALTERED ZONE Silicified altered siltstone. Between 55.1 - 55.7m		✓2%	✓5%			11354 933641	55	56	1	9	X	45	100	60	X	1.95	5.0	X	50
104	60.1				light brown alteration XR11451 Throughout several layers of dark green						11355 933642	56	57	1	20	X	45	20	105	X	2.25	2.0	X	280
					and cream layers XR11452		✓2%	✓3%			11356 933643	57	58	1	15	X	80	20	130	X	2.30	2.0	X	23
			85°		SILICIFIED BLACK SHALE Pyrrhotite/pyrite - disseminated and veinlets						11357 933644	58	59	1	6	X	135	20	50	0.5	1.25	4.5	2	20
121	62.5										11358 933645	59	60	1	4	15	135	30	50	0.5	1.20	10.0	X	18
					ALTERED ZONE Banded calcsilicate sequence. Banded dark						11359 933646	60	61	1	X	10	135	30	60	X	1.60	8.0	8	27
					green serpentine, creamy white diopside. Very distorted in part						11360 933647	61	62	1	25	X	25	15	130	X	2.20	1.5	6	24
62.5	67.9				and boudinaged XR11453						11361 933648	62	63	1	20	X	115	70	680	X	2.45	2.5	4	170
					BLACK SHALE Variably silicified. Irregular bands of quartz		✓	✓5%			11362 933649	63	64	1	X	X	55	10	20	X	2.10	2.5	X	68
					with pyrrhotite, pyrite. Pyrrhotite also filling tension gashes						11363 933650	64	65	1	5	X	70	20	35	X	1.90	8.0	X	23
											11364 933651	65	66	1	X	X	80	35	80	0.5	1.70	8.5	2	20
			85								11365 933652	66	67	1	3	X	120	30	70	0.5	1.60	8.5	4	20
79	68.8										11366 933653	67	68	1	6	X	135	45	155	X	1.60	6.0	X	34
68.8	76.9				BANDED SILTSTONE Silicified black shale with light grey sandy layers						11367 933654	68	69	1	15	X	50	15	390	X	2.10	1.5	X	14
					Synsedimentary slumping and microsynformless evident						11368 933655	69	70	1	20	X	70	25	595	X	2.35	1.5	X	12
					BANDED CALCAREOUS SILTSTONE. Siliceous banded rock			5-7%			11369 933656	70	71	1	10	X	30	25	65	X	1.55	2.0	X	8
					with layers of white carbonate (dolomite) Dolomite layers						11370 933657	71	72	1	X	10	20	20	180	X	1.30	2.5	X	9
					vary from very fine lamellae (< 1mm) to boudinaged layers				✓		11371 933658	72	73	1	15	X	130	25	1650	X	2.20	1.5	X	26
					Veins of tremolite ± diopside ± serpentine? cleanly replacing						11372 933659	73	74	1	4	15	65	20	770	X	2.35	1.0	X	30
					carbonate. Commonly will have a core of pyrrhotite.						11373 933660	74	75	1	10	X	45	25	235	X	1.95	2.0	X	14
					XR11454 (71m) Sphalerite also noted in some veins				✓		11374 933661	75	76	1	75	X	110	60	3980	X	2.80	0.5	X	16
76.9											11375 933662	76	77	1	40	X	45	15	75	X	1.10	0.5	2	16
					CALCSILICATE "SKARN" ROCK. Fine layers of diopside, tremolite ± actinolite						11376 933663	77	78	1	25	X	20	20	60	X	0.495	0.5	X	30

GEOPEKO TASMANIA DRILL LOG

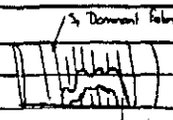
Prospect [redacted] Hole no. 071

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS So	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION po	MINERALISATION sphalerite	Fracturing
					Minor remnant clots of carbonate. Pyrrhotite common in core					
			75-80		of white diopside layers. Layers conspicuously distorted in part					
					Dominantly 70-80° t.c.a. Breaks in tem blocks along So					
					Reddish mineral at 82.5 ? Rhodonite?					
					Irregular small scale folding a wavelength 5 cms					
98	107				GREY SILICIFIED SIRLE WITH CALC SILICATE INTERBEDS					
					Subtle change mafic mineral dominant. White diopside					
					layers form fine layers. Complex small scale isoclinal folding					
					So clearly parallel to S.					
			65°	65°						
107	115.2									
			70°		CALCSILICATE 'SKARN' ROCK. Finely laminated dark siliceous bands		2%	3%	up to 2%	
					with white diopside, silica layers. Crosscutting these layers					
					are veins with pyrite, pyrrhotite, tremolite, actinolite and					
					serpentine, which are in turn replacing some calcsilicate					
					layers. Sphalerite is conspicuous especially 109.1 m. All					
					layers are flexured and small scale isoclinal folds.					
					Pyrrhotite and sphalerite also form blebs					
115.2	121.78									
			Vertical		FINELY LAMINATED SILTY BLACK SHALE. Laminae dominantly					
			60-80°	60-80°	60°-80° t.c.a. with small scale isoclinal folds					

Sample No.	From (m)	To (m)	Rec (m)	ASSAYS (Lab: Sn	W	Cu	Pb	Zn	As	Fe	Mo	Bi	Ag
[redacted] 93384	78	79	1	20	X	20	15	45	1.5	0.795	0.5	X	30
11379 93385	79	80	1	25	X	X	15	40	1.0	0.495	X	X	22
11380 93386	80	81	1	20	X	5	20	40	X	0.39	X	2	17
11381 93387	81	82	1	8	X	20	10	485	X	0.875	4.5	X	4
11382 93388	82	83	1	10	X	5	20	60	X	0.49	3.0	X	76
11383 93389	83	84	1	6	X	10	15	70	X	0.535	3.5	X	8
11384 93390	84	85	1	15	X	10	20	60	X	0.595	7.0	X	5
11385 93391	85	86	1	15	X	X	20	40	X	0.325	3.5	X	67
11386 93392	86	87	1	10	X	15	20	80	X	0.64	3.5	X	4
11387 93393	87	88	1	9	X	10	15	30	X	0.525	2.0	X	30
11388 93394	88	89	1	20	X	15	10	70	X	0.845	0.5	4	25
11389 93395	89	90	1	5	X	10	25	30	X	0.6	3.0	6	18
11390 93396	90	91	1	20	X	15	15	100	X	0.845	3.0	X	25
11391 93397	91	92	1	20	X	15	25	50	X	0.775	0.5	X	7
11392 93398	92	93	1	15	X	5	25	145	X	0.405	3.0	X	6
11393 93399	93	94	1	15	X	10	20	110	X	0.5	2.5	8	14
11394 93400	94	95	1	8	X	45	20	50	X	1.7	4.5	X	91
11395 93401	95	96	1	8	X	15	20	50	1.0	0.73	X	X	5
11396 93402	96	97	1	15	X	10	30	45	X	0.6	3.5	X	8
11397 93403	97	98	1	X	X	5	30	55	X	0.44	X	2	2
11398 93404	98	99	1	3	X	10	20	45	X	0.52	3	4	24
11399 93405	99	100	1	10	X	10	20	40	X	0.45	2	6	21
11400 93406	100	101	1	5	X	5	30	30	X	0.415	1	2	15
11401 93407	101	102	1	X	X	10	15	75	X	0.48	1.5	X	24
11402 93408	102	103	1	10	X	20	25	80	X	0.845	X	X	11
11403 93409	103	104	1	20	X	15	25	60	X	0.705	X	X	14
11404 93410	104	105	1	10	X	10	20	70	X	0.83	X	X	28
11405 93411	105	106	1	8	X	15	15	50	X	0.87	1.5	2	15
11406 93412	106	107	1	15	X	15	20	130	X	0.60	0.5	4	22
11407 93413	107	108	1	15	10	35	15	595	X	1.00	0.5	X	29
11408 93414	108	109	1	30	X	20	15	155	0.5	0.825	X	X	31
11409 93415	109	110	1	35	15	120	10	1.95%	X	1.25	X	22	70
11410 93416	110	111	1	10	X	15	10	910	X	0.775	1.5	6	27
11411 93417	111	112	1	9	X	5	20	75	X	0.475	2.5	X	6
11412 93418	112	113	1	8	X	5	20	120	X	0.515	2	2	20
11413 93419	113	114	1	10	X	45	20	600	X	1.15	1.5	X	25
11414 93420	114	115	1	15	X	X	15	600	0.5	0.705	0.5	X	25
11415 93421	115	116	1	10	10	5	25	185	X	0.52	2.0	4	60
11416 93422	116	117	1	6	X	25	X	800	0.5	0.83	4.0	4	22

GEOPEKO TASMANIA DRILL LOG

Prospect GRANVILLE EAST Hole no. DDH1 022

DEPTH (m) from	DEPTH (m) to	GRAPHIC LOG	ANGLE TO CORE AXIS Sa	ANGLE TO CORE AXIS Si	GEOLOGICAL DESCRIPTION	Alteration	MINERALISATION py	MINERALISATION po	Fracturing
					 Implies S dip approx vertical				
123.78	125.5				THINNED, SILICIFIED CALCSILICATE 'SLABBY' ROCK. Light grey/black siliceous bands with white calcsilicate layers		✓	✓	
125.5	128.2				INTERBEDDED DOLOMITIC SILTSTONE AND CALCSILICATE ROCK. Carbonate is fine grained and dark grey and is virtually indistinguishable from silicified siltstone/shale. Calcsilicate layers contain complex mineralogy (123.3 - 128.2m). Calcsilicate layers crosscutting bedding and replacing carbonate. Remnant carbonate layers evident. Blebs of pyrrhotite common.				
128.2	130.84								
130.84	134.51				FINELY LAMINATED SILTY BLACK SHALE. Minor dolomitic? bands. Pyrrhotite along fracture planes.				
134.51	156.4				FINELY LAMINATED DOLOMITIC SILTSTONE. Clots of carbonate within a fine grained dark mineral. Fine grained disseminated pyrrhotite pyrite. Also layers of carbonate/calcsilicate. Pyrrhotite crosscutting layers.				
					FINELY LAMINATED BLACK SHALE. Minor carbonate bands. Fine laminae of pyrrhotite, pyrite. Veinlets of pyrite and pyrrhotite. Pyrrhotite disseminated throughout. Also later stage cementation into cleavage. S1 main fabric. Numerous small isoclinal fold. Later veinlets with pyrite, pyrrhotite and carbonate.		✓	✓	
			77° →						
			70°	70°					
					E.O.H. 156.4m.				
	156.4								

Sample No.	From (m)	To (m)	Rec (m)	ASSAYS (Lab) Sn	W	Cu	Pb	Zn	Ag	Fe	Mn	Bi	As
11447 933851	117	119	1	7	10	20	x	355	0.5	0.71	2	x	9
11448 933854	118	119	1	x	x	20	x	270	x	0.835	1.5	x	14
11449 933855	119	120	1	x	x	25	x	205	x	0.84	0.5	2	10
11450 933856	120	121	1	5	x	25	x	520	0.5	0.995	0.5	x	18
11451 933857	121	122	1	4	x	25	x	400	x	0.995	1.0	4	10
11452 933858	122	123	1	x	15	25	x	450	x	0.915	0.5	x	7
11453 933859	123	124	1	x	x	25	10	155	x	0.82	1.5	2	10
11454 933860	124	125	1	x	x	40	5	215	x	1.00	2.0	x	11
11455 933861	125	126	1	9	x	70	20	405	0.5	1.75	2.0	4	14
11456 933862	126	127	1	6	x	160	30	2800	0.5	1.7	3.5	x	32
11457 933863	127	128	1	220	x	15	x	80	x	1.95	3.0	x	82
11458 933864	128	129	1	170	x	25	x	95	x	1.70	3.5	x	260
11459 933865	129	130	1	60	x	105	20	360	x	2.35	5.5	x	99
11460 933866	130	131	1	x	x	180	35	930	1.0	1.92	8.5	x	20
11461 933867	131	132	1	5	x	120	25	540	x	3.00	2.5	x	11
11462 933868	132	133	1	x	x	110	30	80	x	2.15	3.5	4	4
11463 933869	133	134	1	7	x	105	20	225	x	2.15	4	x	2.5
11464 933870	134	135	1	5	x	85	25	155	0.5	2.25	2.5	4	3
11465 933871	135	136	1	4	x	110	70	290	1.0	2.15	7	x	7
11466 933872	136	137	1	8	x	120	95	295	x	1.55	11.5	x	9
11467 933873	137	138	1	x	x	120	100	130	0.5	1.65	11.0	x	3
11468 933874	138	139	1	7	x	115	125	125	0.5	1.7	15	2	2
11469 933875	139	140	1	4	x	115	85	225	0.5	1.75	16	2	51
11470 933876	140	141	1	4	x	115	105	925	1.0	1.8	17.5	x	4
11471 933877	141	142	1	7	x	105	110	335	0.5	1.5	18	x	7
11472 933878	142	143	1	8	x	100	85	240	x	1.65	15	2	13
11473 933879	143	144	1	4	x	100	75	200	0.5	1.6	15	4	8
11474 933880	144	145	1	3	x	115	95	330	0.5	1.8	15	x	13
11475 933881	145	146	1	x	x	105	60	975	x	1.7	19	x	11
11476 933882	146	147	1	3	x	100	90	1600	x	1.45	18	4	10
11477 933883	147	148	0.8	6	x	100	75	2700	x	1.25	16	x	11
11478 933884	148	149	1	5	x	85	50	360	x	1.5	10.5	x	24
11479 933885	149	150	1	9	x	75	50	345	x	1.55	3	x	21
11480 933886	150	151	1	5	x	90	70	1280	x	1.55	4	2	14
11481 933887	151	152	1	15	x	80	20	640	x	1.5	2	4	10
11482 933888	152	153	1	15	x	65	15	250	x	1.55	24	x	5
11483 933889	153	154	1	3	x	55	20	205	x	1.6	31	x	2
11484 933890	154	155	1	x	x	60	40	195	x	1.55	42	x	2.5
11485 933891	155	156	1	6	x	80	40	360	0.5	1.35	5	x	16
11486 933892	156	156.4	0.4	10	x	75	40	225	x	1.75	11	x	50