

Appendix 4c

NCT009

Lithology Logs – (Scanned Paper Logs)

(See Digital File EL9_2005_200705_09_Appendix4c.pdf)

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
0	150	-80	Easting_AMG	382631
15	139.3	-80.3	Northing_AMG	5365173
40	140	-80.1	Elevation (m)	895
			Azimuth_Mag	152
			Dip	-80

SHEET 1 OF 13

PROJECT:	TASMANIA
PROSPECT:	RED HILLS - COPPER
DATE:	3/12/2006
LOGGED BY:	JK

HOLE DEPTH	CORE RECOVERY	RQD	SAMPLE NO	PREFIX	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG					GEOLOGY NOTES	SUMMARY LOG
					%	1	3	1	3	5	STRUCT	ALT	0.06	0.05	2	8		
2																	No Recovery.	
4																		
6																	5.7-11.6m	
8	87	23															Medium Pink to Dark Red/Black Ksp-He-cl altered mod-strong porphyritic massive dacite (Red Hills lava. Dark tabular he-replaced phenocryst in fine grained he dusted aphanitic groundmass) mod-strong pervasive Ksp-He alteration	
10																	patchy to dominant overprint He-clots + selective pervasive He replacement of tabular/prismatic mineral phenocrysts, Mod-Strong He-ab wash of gmass	
12	103	55															QFe-Ksp veins ~0.3%, intensely leached, contain small He-clot.	
14	90	99															11.6-30.8m	
16	105	97															Lithology as above.	
18	98	91															Alteration: Mod to strong pervasive dark red/grey He-Ab alteration + wk ch infill of microfractures and thin veins.	
20	107	72															He-Ab alteration variable from pervasive flooding of gmass to dominial spotting	
22																	increasing ch alteration within He spots.	
24	95	86															V. weak patch mt alteration also associated with he-spotting.	
26	102	69															veining consists of thin (generally <3mm) sheeted stockwork, strongly leached qtz-ch-he veins <0.3%	
28																		
30	92	67																
32	97	66																
34																		
36	88	63																
38																		
40	94	46																
40																		
REMARKS																		

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
70	139.0	-80.2	Easting_AMG	38 2631
100	137.8	-80.2	Northing_AMG	5 365173
			Elevation (m)	895
			Azimuth_Mag	152
			Dip	-80

PROJECT: <u>TASMANIA</u>
PROSPECT: <u>RED HILLS - COPPER</u>
DATE: <u>4/12/2006</u>
LOGGED BY: <u>JK</u>

HOLE DEPTH	CORE RECOVERY	ROD	SAMPLE NO	PREFIX	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG						GEOLOGY NOTES	SUMMARY LOG
					%	1	3	5	STRUCT	ALT	mm								
					1	3	5			0.06	0.5	2	8	32	64				
42	100	28							X	He Ksp							Intense he flooding resulting in brecciation of Ksp altered rhyolite. - possibly annealed fault or hydrothermal inflow.		
44	96	67							He-ch veins	He -ch Ksp th.s.							increase in intensity of very thin ch-he veins + microfracture infill. pervasive he-reddened Ksp ± Si wash of gmass		
48	103	86								Ksp-He-Si							Lithology - Med Pink/orange → Coxy moderate to strongly feldspar porphyritic dacite/rhyolite?		
50	86 75	93 0																	
52	100	55							Fbx	Ksp He Lim							Fault Breccia - Hematite limonite clay + dacitic clasts.		
54	97	48			cpy				qtz-ch -cpy	He -Albite							52-63m. mod pink/grey pervasive Ab-he ± wkch. altered porphyritic lava. patchy - spotty he + replacement of fsp an phenocryst.		
56	100	88			cpy				qtz-ch								Minor qtz-ch-cpy + qtz-ch-veins upto 2cm. Cpy confined to minor blks within qtz-ch veins. No disseminated sulfides Predominant vein set qtz-ch ± cpy ~2-3%		
58	120	75			py				He-py ch-cpy										
60	91	78			py				qtz-ch										
62	97	76							qtz-ch									59-63m - Intense albite ^{position} → texturally destructive alt. Minor qtz-Ksp veins upto 1cm	
64	78	17							qtz-Ksp										
66	100	38																	
68	97	72							qtz-ch -he									irregular contact quenching fine grained upper margin, variable grain size from fine grained well sorted to poorly sorted vc sandstone. Minor qtz-ch-he veins + diffuse he stringers	
70									qtz-ch he										
72	93	43																Brecciated lower contact re-crystallized fine grained + brittle fault gouge breccia.	
74	97	34							Bx Fg+Bx Peb dyke	Clay -se Ksp -se								minor pebble vein dykes upto 3cm, bx internal structure + he-supported matrix	
76																			
78	97	38																Pervasive he-ab wash ± wk sericite overprint, extremely rare qtz-he-ch veins. vein density decrease dramatically.	
80																			

REMARKS

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
220.0	137.2	-80.1	Easting_AMG	382631
235.0	138.3	-80.1	Northing_AMG	5365173
			Elevation (m)	895
			Azimuth_Mag	152
			Dip	-80

PROJECT: <u>TASMANIA</u>
PROSPECT: <u>RED HILL S</u>
DATE: <u>10/12/2006</u>
LOGGED BY: <u>JK</u>

HOLE DEPTH	CORE RECOVERY	RQD	SAMPLE NO	PREFIX	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG					GEOLOGY NOTES	SUMMARY LOG	
					%					STRUCT	ALT	mm							
					1	3	1	3	5			0.06	0.5	2	8	32	64		
202									0.1 ca.1 0.1 ca.1	Bx	He-Ab Ch-He							Med to Dark Green/Red Ab-He ± Ch-Mt altered med brecciated to coherent aphyritic rhyolite + rhyolitic volcanics (poorly sorted).	
204	98	84							0.3 ad.1 0.2									Selective pervasive he-ab alt of breccia clasts.	
206	98	92							0.1 0.1									Pervasive ch-mt alteration of bx groundmass. matrix supported vcc. congl.	
208									0.1									Minor disseminated + diffuse discontinuous veined py upto 0.5%	
210	100	70							0.3 0.1 0.5									Cpy upto 0.1% minor blebs ch-microfractures	
212	100	67							0.3 0.5 ca.1 0.3	qtz-ch -ch	He-Ab Ch-He							Rare qtz-ch veins < 0.1%	
214									0.3										
216	99	63							< 0.1 0.1		Ch-Ab -He							med grained porphyritic rich well sorted ch ± he-se altered volcanic tuff (214-215m) weakly foliated.	
218	100	60							0.4 ca.1 0.3 0.1 0.1 ca.1	qtz-ch -ksp	Ab-He -He							increasing intensity qtz-ch ± ksp-cpy veins	
220									0.4 ca.1 0.5										
222	97	80							0.5 ca.1									219m - 227m.	
224	100	87							0.3 ca.1 0.2 ca.1	qtz-ch -ksp	Ab-He -He							Ksp + Ch ± Si ± He-Ab altered rhyolitic lava, moderate internal brecciation. disseminated cpy → within small amygdals of lava + lava clasts.	
226									0.2 ca.1 0.3 ca.1	qtz-ch -ksp									
228	97	59							0.3 ca.1 0.5	qtz-ch -ksp								He-Ab-ch altered weakly brecciated rhyolitic lava.	
230	99	82							0.4 0.1 2.0 0.3	qtz-ch -ksp									
232									0.4 0.1 0.3 0.1										
234	97	69							0.3 0.3 1.5	qtz-ch -ksp	He-Ab -He							Cpy mineralisation upto 1-2% associated with strong ch-alteration generally b/w bx lava clasts. minor dissem cpy in lava clasts.	
236	97	92							0.5 0.5 0.3 0.1										
238	88	100							0.3 0.3 0.2 0.1	qtz-ch -ksp									
240	100	75							0.3 0.1 0.1	qtz-ch	Ab-He -He								

REMARKS

Survey Depth	Azimuth	Dip	Hole Co-ordinates	
440	147	-79.5	Easting_AMG	382631
470	148.7	-79.5	Northing_AMG	5365173
			Elevation (m)	895
			Azimuth_Mag	152
			Dip	-80

PROJECT:	TASMANIA
PROSPECT:	RED HILLS
DATE:	01/02/2007
LOGGED BY:	JK

HOLE DEPTH	CORE RECOVERY	ROD	SAMPLE NO	SULPHIDES					PICTORIAL LOG		GRAPHIC LOG					GEOLOGY NOTES	SUMMARY LOG
				%					STRUCT	ALT	mm						
				1	3	1	3	5			0.06	0.5	2	8	32		
			PREFIX														
100	77						0.5 vn	cb-ch									-450.35 med red/brown-green, wk he dusted ± ch altered fine grained aphanitic rhyolite. dominant vein set gte-ch-ch ± Ksp. ~2% upto 5cm. remobilised spy in gte-ch-ch veins.
442							<0.1 co	py									
99	58						<0.1 co	11x13									
444							0.1 co	11x9									
446							<0.1	11x4									
97	49						0.1	11x8									
448							0.3	11x9									
450							0.4	py x2									diffuse pyrite veins x2 (1-2mm)
98	58						0.2 co	2x6									
452							<0.1										
100	34						0.1	cb-ch									
454							0.1	11									
100	60						0.1	cb-ch ± py									
456							<0.1	cb-ch									
96	50						0.1	gte-ch									
458							0.1	11									
96	53						<0.1	gte-ch									
460							0.2	11									
100	60						0.1	cb-ch									
462							<0.1	cb-ch ± py									
100	80						0.2	gte-ch									
464							0.4	11									
466							0.3	cb-ch									
96	50						0.1	11									
468							0.1	cb-ch									
470							0.1	cb-ch									
100	79						0.2	py-ch									
472							<0.1	cb-ch									
100	77						<0.1	cb-ch									
474							0.3	py-ch									
476							<0.1	ch-ch									
97	44						0.1	gte-ch									
478							<0.1	gte-ch									
100	77						0.1	py-ch									
480							0.2	ch-py									
97	62						0.2	ch-py									
480							0.2	ch-py									

REMARKS

massive bucky gte-ch-cb veins b/w 476-477m upto 10cm. (unmineralised) Devonian?

ch-cb-py vein (0.5cm)

