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BROKEN HILL PROPRIETARY CO. LTD.

DRILL LOG HEADER SHEET.

Project: *Tin, Tasmania* Hole No: *WA.2.*
 Prospect: *WARATAH T650* Total depth: *284.2m*
 Local Grid co-ords. Bearing:
 AMG co-ords *CQ 811177* Depression *VERTICAL*
 Drilling Co: *OVERLAND DRILLING CO.* R.L. Collar:
 Drill type: *WARMAN 450* Commenced: *15/2/83*
 Driller: *P. HARPER U. EVERSDEN* Completed: *24/2/83*
I. LARSEN Logged by: *S.P. KERBER*
 Sampled by: *S.P. KERBER*

Hole Size	From	To	Total	Core storage:	<i>SCAMANDER</i>
Non-core <i>HQ</i>	<i>0</i>	<i>141.0</i>	<i>141.0</i>	No. of trays.	<i>15 CORE 2 CHIP</i>
Core <i>NQ</i>	<i>141.0</i>	<i>207.4</i>	<i>66.4</i>	Sample storage	<i>ANALABS - LODER</i>
	<i>207.4</i>	<i>284.2</i>	<i>76.8</i>	Geochem. Lab.	<i>ANALABS</i>
Casing				Analytical reports	
				Min. and Pet Lab.	<i>M.R.L.</i>
Casing left.				Min and Pet report	

Hole Survey Data: *Susceptibility - 2m intervals.**Geochemistry - BE 5042 - BE 5051**Petrology - WA2-1 to WA2-4*

Summary Log: *TERTIARY 0 - 240.35 Basalt*
240.35 - 241.4 Chert, clay, gravel.

CAMBRIAN 241.4 - 254.0 Basalts - Tuff.
254.0 - 254.44 CHERT
254.44 - 256.0 BRECLIA
256.0 - 264.6 KOMATIITE
264.6 - 276.1 TUFF
276.1 - 284.2 KOMATIITE

Comments:

E.O.H. 284.2m

Project WARATAH T650

THE BROKEN HILL PROPRIETARY CO. LTD.

Drillhole No. WA.3

Sheet 1 of 4

DRILLING								DESCRIPTIVE		LOG		INTERSECTION ANGLE LCA			
Core size	From m	To m	Inter- sected	Recov- ered	% Recovery	From m	To m	LITHOLOGY	MINERALISATION	Sample no.	Bedding	Veins	Other	Petrology etc.	Box no.
						0.0	2.0	Soil brown, weathered basalt chips.							
N						2.0	16.0	CLAY brown rounded clay balls, white clay balls, weathered basalt chips.							
O															
N						16.0	141.0	BASALT							
I								16.0-18.0 Basalt, grey and light grey clay.							
C								18.0-24.0 Basalt, dark grey, red brown shale chips, kaolinite, rutile							
O								44.0-50.0 Basalt, pinkish, weathered							
R								50.0-68.0 Basalt, grey.							
I								68.0-72.0 Basalt, pink weathered.							
N								72.0-104.0 Basalt, grey							
G								104-110 Basalt, pinkish beige, weathered.							
								110-124 Basalt, grey.							
								124-126 Basalt, pinkish, weathered.							
								126-141 Basalt, grey.							
						141.0	240.35	BASALT grey, medium grained, minor interflow sediments.							1
	141.0	141.6	0.6	0.35	58.3			141.0-141.6 Basalt, dense.							
	141.6	148.8	7.2	1.1	15.2			141.6-148.8 Basalt, amygdaloidal, black iddingsite/haulingite filling							
	148.8	150.4	1.6	1.1	68.8			148.8-150.4 Sandstone, light tan, minor plant fossils.							
N	150.4	153.4	3.0	2.7	90.0			150.4-153.4 Basalt, pale green, weathered, vesicular, kaolinite replacing feldspar tabs.							
Q	153.4	156.4	3.0	3.0	100			153.4-156.4 Basalt, more, weathered, vesicular, clayey.							
	156.4	159.4	3.0	2.96	98.7			156.4-159.4 Basalt, dense							2
C								159.4-159.8 Basalt, pinky beige, weathered, vesicular							
O	159.4	162.4	3.0	3.0	100			159.8-159.8 Basalt, grey-green, dense							
R	162.4	165.4	3.0	3.0	100			159.8-161.0 Basalt, vesicular							
I	165.4	168.4	3.0	3.0	100			161.0-162.4 Basalt, dense, iddingsite/haulingite in phenocrysts.							3
N	168.4	171.4	3.0	3.0	100			162.4-167.2 Basalt, grey-brown, chalcidony vein							
G								167.2-167.4 Basalt, pink, vesicular, 1/2-1cm vugs.							
								167.4-170.6 Basalt, smaller vesicles.							
								170.6-171.4 Basalt, vesicular.							4
	171.4	174.4	3.0	3.0	100			171.4-173.2 Basalt, dense							
	174.4	177.4	3.0	3.0	100			173.2-175.0 Basalt, very vesicular, pink clayey.							
								175.0-177.0 Basalt, vesicular grey							
								177.0-178.2 Basalt, dense.							

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Drillhole No. WA 3

Sheet 2 of 4

DRILLING								DESCRIPTIVE			LOG		INTERSECTION ANGLE LCA			
Core size	From m	To m	Inter- sected m	Recov- ered m	% Recovery	From m	To m	LITHOLOGY	MINERALISATION	Sample No	Bedding	Veins	Dip cont. fract	Petrology etc	Box No	
	177.4	180.4	3.0	3.0	100			BASALT							5	
N	180.4	183.4	3.0	3.0	100			178.22-180.81 Basalt, mauve, vesicular, 1cm veg.								
Q	183.4	186.4	3.0	3.0	100			180.81-183.57 Basalt, dense, high felsic mineral content					70°			
								183.57-185.0 Basalt, mauve, green, vesicular, high chalcidony content								
C								185.0-187.25 Basalt, dense							6	
O	186.4	189.4	3.0	3.0	100			185.25-186.8 Basalt, vesicular								
R								186.8-187.18 Basalt, mauve, vesicular								
I								187.18-187.89 Basalt, vesicular								
N	189.4	192.4	3.0	3.0	100			187.89-190.5 Basalt, grey-green, dense, voided, crystalline, malite filled								
G								190.5-191.7 Basalt, vesicular, mauve								
	192.4	195.4	3.0	2.86	95.3			191.7-193.5 Basalt, crystalline, green clay							7	
	195.4	198.4	3.0	3.0	100			193.5-200.5 Basalt, dense								
	198.4	201.4	3.0	2.45	81.7			200.5-201.9 Basalt, green, vesicular, crystalline, abundant kaolinitised feldspars							8	
	201.4	204.4	3.0	3.0	100			201.9-204.8 Basalt, dense, dense					75°			
	204.4	207.4	3.0	3.0	100			204.8-207.5 Basalt, vesicular, crystalline							9	
	207.4	209.2	1.8	1.8	100			207.5-210.13 Basalt, dense								
	209.2	210.2	1.0	1.0	100			210.13-210.57 Basalt, pink, vesicular					75°			
	210.2	213.2	3.0	3.0	100			210.57-213.27 Basalt, vesicular, yellow malite					30°			
								213.27-213.8 Basalt, red staining, dense, fragmented at the top								
B	213.2	213.6	0.4	0.4	100			213.8-214.16 Basalt, green, weathered								
Q	213.6	216.4	2.8	2.5	89.3			214.16-216.24 Basalt, dense, calcite veins, high chalcidony content					5°			
								216.24-216.89 Basalt, vein of tan colored malite or secondary mineral								
	216.4	218.15	1.75	1.75	100			216.89-218.27 Basalt, dense, calcite veining, clay fill in fracture								
C								218.27-218.89 Basalt, green, clayey, fracture fill								
O								218.89-218.95 Basalt, dense							10	
R								218.95-218.15 Basalt, green, cementised vein, abundant calcite veining								
I	218.15	221.2	3.05	3.05	100			218.15-218.81 Basalt, dense, abundant calcite veining					5°			
N								218.81-220.38 Basalt, dense								
G								220.38-220.48 Mudstone, tan								
								220.48-220.9 Clay, fracture fill								
	221.2	222.4	1.2	1.2	100			220.9-221.7 Basalt, green, mauve, weathered, clayey								
								221.7-222.4 Basalt, fresh, vesicular								
	222.4	224.8	2.4	2.19	91.3			222.4-222.7 Basalt, dense								
	224.8	228.0	3.2	3.2	100			222.7-226.2 Basalt, vesicular, green, clayey								
	228.0	231.15	3.15	3.15	100			226.2-231.4 Basalt, dense							11	

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Drillhole No. WA 3

Sheet 3 of 4

DRILLING								DESCRIPTIVE		LOG		INTERSECTION ANGLE LCA				
Core size	From m	To m	Inter-section m	Recovery %	% Recovery	From m	To m	LITHOLOGY	MINERALISATION	Sample No	Bedding	Veins	Other	Petrology etc	Box No	
	231.15	234.2	3.05	3.05	100			BASALT								
	234.2	237.35	3.15	3.15	100			236.8-236.8 Basalt, vesicular, green clay.							12	
								236.8-237.65 fracture fill, soft grey chertaceous.								
	237.35	240.35	3.0	3.0	100			237.65-237.6 Basalt, dense, 4cm white vugs.								
B								237.1-237.6 Basalt, vesicular, crystalloidal, vesicles								
Q								237.6-240.35 Basalt, dense.								
								TERTIARY SEDIMENTS								
	240.35	241.4	1.05	0.24	22.9	240.35	241.4	240.35-241.4 Coal, clay and chert pebbles.								
								CAMBRIAN BASALTS.								
	241.4	243.35	1.95	0.2	10.3	241.4	251.6	241.4-251.6 Basalt, green brown, very weathered, oxide staining		BE 5242						
C	243.35	244.25	0.9	0.14	15.6											
O	244.25	246.4	2.15	1.98	92.0											
R	246.4	247.2	0.8	0.8	100					BE 5243						
I	247.2	248.4	1.2	1.0	83.3											
N	248.4	249.3	0.9	0.6	66.7											
G	249.3	251.4	2.1	0.54	25.7			TUFF							13	
	251.4	252.0	0.6	0.6	100	251.6	258.0	251.4-252.0 Basaltic lava, dark green, spherulitic.								
	252.0	254.0	2.0	2.0	100			252.0-254.0 Tuff, dark green, breccia, very fine grained.					25°	WA 3-1 252.9m		
						254.0	254.44	CHERT		BE 5244						
	254.0	257.0	3.0	2.9	96.7			254.0-257.0 Chert, green, very fine grained, layering defined by grain size, spherulitic.								
						254.44	256.0	BRECCIA		BE 5245						
								254.44-256.0 Breccia, dark green, fragments of chert in thick veins								
						256.0	264.6	KOMATIITE								
	257.0	259.8	2.8	2.51	89.6			256.0-264.6 Komatiite, dark green, fine grained matrix, chlorite - spherulite rich.		BE 5246						
	259.8	261.45	1.65	1.25	75.8			relic phenocrystic texture, abundant vesicles.								
	261.45	262.9	1.45	1.22	84.1					BE 5247						
	262.9	263.0	0.1	0.1	100									WA 3-2 262.99		
								TUFF		BE 5248						
	263.0	267.1	4.1	4.07	99.3	264.6	276.1	263.0-276.1 Tuff, dark green, 4-5cm size fragments of basalt, some crystalloidal angular, fragmented granules, minor calcite veining					5°			

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Project BARATAH T650

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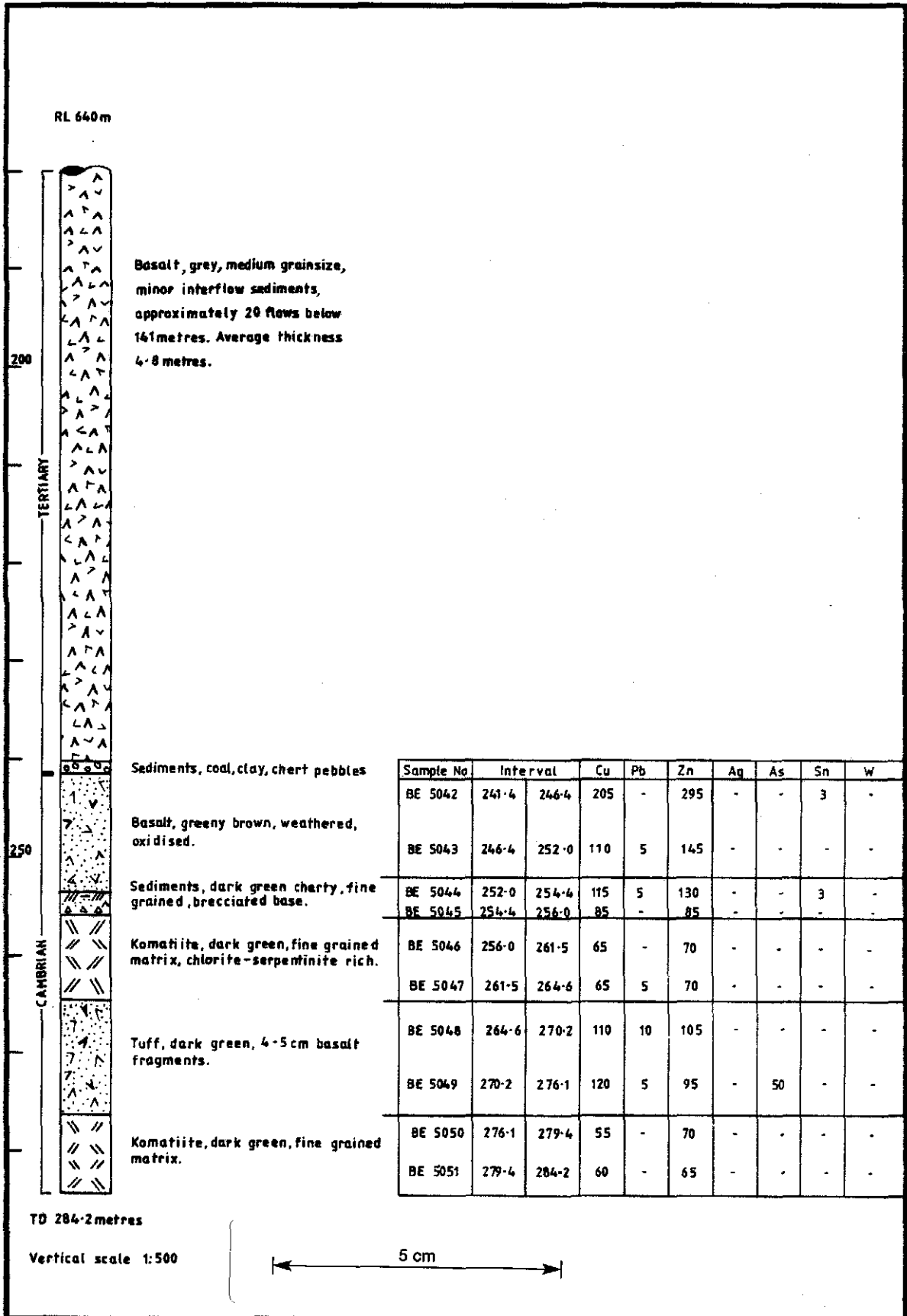
Drillhole No. WA.3.

Sheet 4 of 4

DRILLING						DESCRIPTIVE			LOG			INTERSECTION ANGLE LCA				Box No
Core size	From m	To m	Inner- ashed m	Reco- red m	% Recovery	From m	To m	LITHOLOGY	MINERALISATION	Sample No	Bedding	Veins	Other	Petrology etc		
B	267.1	270.2	3.1	3.1	100											
Q	270.2	273.35	3.35	3.33	99.4											
						276.1	284.2	KOMATIITE								
C	273.55	276.35	2.8	2.8	100			276.1-284.2 Komatiite, dark green, fine grained matrix, segregation rich,		BE 2049				WA3-3 273.96	15	
O	276.35	278.85	2.5	2.5	100			abundant calcite veins, abundant pyroxenes and chromites porphyritic,		BE 2050						
R	278.85	279.35	0.5	0.5	100			peridotitic. Relict plagioclase olivine textures.								
I	279.35	279.9	0.6	0.53	88.3					BE 2051						
N	279.9	282.4	2.5	2.5	100											
G	282.4	283.1	0.7	0.7	100									WA3-4 282.3	16	
		283.1	0.1	0.1	100											
		283.2	0.5	0.5	100											
		283.8	0.4	0.4	100			F.O.H. 284.2m.								

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Centre HQBART	THE BROKEN HILL PROPRIETARY CO. LTD. DRILL HOLE WA3 (ANOMALY D) GRAPHIC LOG AND GEOCHEMISTRY RESULTS	Project No. I 650
Date 9.5.83		Drawing No.