077

526077

BROKEN HILL PROPRIETARY CO. LTD.

DRILL LOG HEADER SHEET.

Project: TIN, TASMANIA
Prospect: WARATAH T650
Local Grid co-ords.
AMG co-ords CQ 809215
Drilling Co: OVERLAND DRILLING CO.
Drill type: WARMAN 250, WARMAN 500
Driller: W. EVERSDEN
B. LOVELL

Hole No: WA.2.
Total depth: 190.77m
Bearing:
Depression VERTICAL
R.L. Collar:
Commenced: 22/1/83 4/3/83
Completed: 28/1/83 9/3/83
Logged by: S.P. KERBER
Sampled by: S.P. KERBER

Hole Size		From	To	Total
Non-core	HQ	0	96.0	96.0
	HQ	96.0	184.0	91.0
Core	BQ	96.0	190.77	94.77
Casing				
Casing left.				130.0

Core storage:	SCAMANDER
No. of trays.	10 CORE / CHIP
Sample storage	ANALABS COOEE
Geochem. Lab.	ANALABS
Analytical reports	
Min. and Pet Lab.	M.R.L.
Min and Pet report	

Hole Survey Data: Susceptibility - 2m intervals. Geochemistry - BE 5030 - BE 5031

Summary Log: TERTIARY 0 - 129.31 Basalt
129.31 - 148.3 Mudstone
148.3 - 189.86 Basalt

189.86 - 190.77 Chert breccia

E.O.H. 190.77

Comments: Warman 250 stopped drilling at 190.77 after drilling off the edge of the cement plug. Warman 500 began re-drill, reached 184.0 and bogged casing and hammer.

Project WARATAH T650

THE BROKEN HILL PROPRIETARY CO. LTD.

Drillhole No. WA.2

Sheet 1 of 3

DRILLING						DESCRIPTIVE LOG										
Core Size	From m	To	Inter-sected m	Recov-ered	% Recovery	From m	To	LITHOLOGY	MINERALISATION	Sample No.	INTERSECTION ANGLE LCA Bedding	Veins	Other	Petrology etc	Box No.
						0	6.0	SOIL - brown, weathered basalt chips, clay balls.							
						6.0	20.0	CLAY - yellow/red, minor grey basalt chips.							
WOW CORING						20.0	96.0	BASALT -							
								20.0-28.0 grey chips							
								28.0-42.0 grey chips, very high clay content							
								42.0-68.0 grey chips							
								68.0-84.0 pinky/red chips, zeolite fragments.							
								84.0-96.0 grey, coarse chips.							
						96.0	129.31	BASALT							
	96.0	97.2	1.2	0.92	76.7			96.0-103.9 Basalt, coarse grained, fairly dense, clay mineral on fracture faces.							1
	97.2	99.0	1.8	1.79	99.4										
	99.0	99.3	0.3	0.26	86.7										
	99.3	102.3	3.0	3.0	100										
	102.3	103.7	1.4	1.21	86.4										
	103.7	106.7	2.9	2.89	99.65			103.9-105.89 Basalt, partly vesicular, partly amygdaloidal, 4cm veg., minor zeolites.							2
	106.7	109.6	3.0	2.93	97.7			105.89-107.26 Basalt, very dense, coarse grained, flow of 3mm amygdales 25° to core.							
								107.26-109.1 Basalt, amygdaloidal and vesicular, minor zeolites, dark clay mineral.							
	109.6	112.7	3.1	3.08	99.35			109.1-114.21 Basalt, dense, very coarse. minor amygdales form trains 20° to core.							
	112.7	115.8	3.1	3.02	97.41			114.21-118.0 Basalt, amygdaloidal, serpentine mineral and zeolites.							3
	115.8	118.5	2.7	2.7	100			118.0-120.5 Basalt, dense, medium grained, chlorite replacement of phenocrysts.							
CORING	118.5	120.5	2.0	2.0	100										
	120.5	123.6	3.1	3.1	100			120.5-124.0 Basalt, amygdaloidal, serpentine and zeolite minerals.							
	123.6	125.0	1.4	1.4	100										
BQ	125.0	127.7	2.7	2.7	100			124.0-124.75 Fragments of vesicular basalt, brown medium grained sand, clay minerals, abundant serpentine, calcite veining, zeolite fragments.							4
								BASALT							
								124.75-126.29 Basalt, vesicular and amygdaloidal, elongated vesicles.							
	127.7	129.5	1.8	1.77	98.3			126.29-129.0 Basalt, coarse grained, dense, abundant serpentine.							
								129.0-129.31 Basalt, amygdaloidal, partly vesicular. serpentine.							

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Project WARATAH T650

THE BROKEN HILL PROPRIETARY CO. LTD.

Drillhole No. WA 2.

Sheet 2 of 3

DRILLING						DESCRIPTIVE LOG												
Core size	From m	To	Intersected m	Recovered	% Recovery	From m	To	LITHOLOGY	MINERALISATION	Sample No.	INTERSECTION ANGLE TCA Bedding	Veins		Other		Petrology etc	Box No.
						129.31	148.3	TERTIARY SEDIMENTS.									
	129.5	132.6	3.1	1.25	40.4			129.31-132.6 Sandy Clay, light brown unconsolidated, weathered basalt fragments, coarse quartz grains, plant fragments. 34° contact with the basalt.									
	132.6	135.5	2.9	2.01	69.3			132.6-134.2 Silt, sandy medium grained white, plant layers 45° to core.									
	135.5	138.5	3.0	3.0	100			134.2-138.3 Mudstone, light tan, plant fossils, graded contact.									5
	138.5	141.5	3.0	2.74	91.3			138.3-138.7 Sand, silty light tan coarse grained. 2-3cm pebbly fragments.									
								138.7-140.05 Gravel, coarse grained with medium to fine silt and sericite flakes.									
	141.5	144.5	3.0	2.66	88.6			140.05-148.3 Mudstone, fine, sericite									
	144.5	147.5	3.0	2.72	90.6												6
	147.5	149.8	2.3	1.37	59.6	148.3	189.86	BASALT									
	149.8	152.9	3.1	1.87	60.3			148.3-150.04 Basalt, light grey coarse vesicles 1-2cm in size.									
								150.04-150.07 Sand, light grey, fine grained, minor sericite bottom contact 30°									
								150.07-152.6 Basalt, light grey, dense, round amygdales, zeolites, abundant olivine									
	152.9	156.0	3.1	3.1	100			152.6 - 153.64 Sand, grey, small 20cm interbeds with basalt.									
	156.0	159.1	3.1	3.1	100			153.64-163.08 Basalt, grey dense, 1cm olivine phenocrysts.									7
CORING	159.1	159.7	0.6	0.6	100												
	159.7	160.1	0.4	0.4	100												
	160.1	162.0	1.9	1.9	100												
	162.0	164.5	2.5	2.09	83.6			163.08-164.2 Sand, very fine with plant layers.		BE 5030							
								164.2 - 164.39 Mudstone, brown woody plant layer.									
BQ	164.5	167.6	3.1	3.1	100			164.39-164.85 Silt, fragments of clayey basalt, wood, silt, grey-green clay									
								164.85-165.0 Basalt, light grey, vesicular 1 to 2cm vugs zeolites abundant.									
								165.0 - 165.2 Clay, fragments of plant material.									
								165.2 - 166.83 Basalt, vesicular, zeolite in 1-2cm vugs.									
	167.6	170.2	2.6	2.6	100			166.83 - 167.85 Basalt, dense 1mm vesicles.									8
								167.85-167.98 Basalt, vesicular zeolites seperating in fractures.									
								167.98-169.9 Basalt, dense abundant olivine									
								169.9 - 170.1 fracture filled by green clay, fossil wood. 84° fracture.									
	170.2	173.3	3.1	3.2	103.2			170.1 - 171.0 Basalt, dense									
	173.3	176.4	3.1	3.09	99.67			171.0 - 173.95 Basalt, vesicular, zeolites abundant, clay minerals, 1-2cm vugs.									
	176.4	178.7	2.3	2.19	95.2			173.95-176.91 Basalt, dense. 84° contact with vesicular section zeolites									9
								176.91-177.31 Basalt, vesicular									
								177.31-177.43 Basalt, dense									
								177.43-177.9 Basalt, vesicular ½cm vugs, zeolites.									
	178.7	180.5	1.8	1.8	100			177.9 - 188.25 Basalt, dense, medium grained vertical fractures, zeolites									

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Project WARATAH T650

THE BROKEN HILL PROPRIETARY CO. LTD.

Drillhole No. WA 2.

Sheet 3 of 3

DRILLING								DESCRIPTIVE LOG			INTERSECTION ANGLE LCA						
Core size	From m	To	Intersected m	Recovered	% Recovery	From m	To	LITHOLOGY	MINERALISATION	Sample No	Bedding	Veins		Other		Petrology etc	Box No
	180.5	182.5	2.0	2.0	100			BASALT									
	182.5	182.9	0.4	0.4	100												
	182.9	185.6	3.3	2.63	79.7												
	185.6	186.8	1.2	1.14	95												
	186.8	188.6	1.8	1.67	92.8			188.25-188.52 Basalt, grey round vesicles 3mm in size, zeolites.									10
	188.6	190.5	1.9	1.9	100			188.52-188.62 Gravel, fracture infill, coarse grains, serpentine.									
								188.62-189.02 Basalt, rounded vesicles.									
								189.02-189.18 fracture filling of serpentine, plant material, silt, zeolites									
								189.18-189.26 Clay, grey, fragments of green clayey basalt.									
								189.26-189.51 Basalt, vesicular, rounded vugs.									
						189.86	190.77	CHERT BRECCIA									
								189.86 Breccia, grey matrix, white angular chert fragments 4cm. average of ½cm. elongate wood and serpentine fragments 4 x ½cm in size. Silt, clay, zeolite matrix.		DE 5031							
	190.5	190.77	0.27	0.27	100			190.5 Breccia, grey matrix and fragments, coarser average over 1cm. fine matrix veins of zeolite.									
								E.O.H. 190.77m.									

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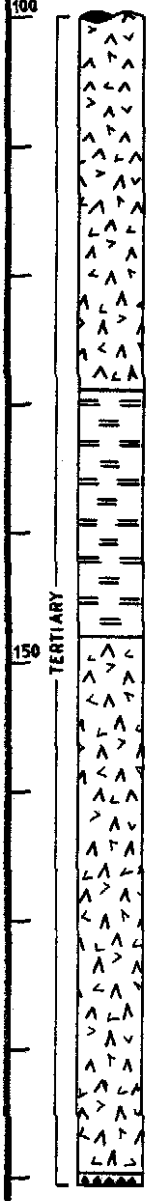
RL 631 m



Basalt, grey, medium grainsize, approximately seven flows, average thickness 4·65 metres (below 96 metres only)

Mudstone, tan with abundant plant matter, interbedded silts, fine sands

Basalt, grey, minor interflow sediments, approximately 10 flows average thickness 3·8 metres

Chert Breccia, coarse, angular fragments of chert

TD 190·77metres

Vertical scale 1:500

Sample No	Interval		Cu	Pb	Zn	Ag	As	Sn	W
BE 5030	163	164	5	5	60	-	-	-	-
BE 5031	190	190·77	25	5	60	-	-	-	-

5 cm

Centre HOBART	THE BROKEN HILL PROPRIETARY CO. LTD.	Project No. TA50
Date 9-5-83	DRILL HOLE WA 2 (ANOMALY C) GRAPHIC LOG AND GEOCHEMICAL RESULTS	Drawing No.