

028

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THE BROKEN HILL PTY. CO. LTD. PROJECT WELD RIVER DRILL HOLE WD1
 LOCATION GLOVER'S BLUFF CO-ORDINATES - LOCAL 1600-N/1130-E/RL.249.4
 - A.M.G. -----
 ANGLE OF DEPRESSION 46° BEARING (MAG) 60°
 DRILLING CO. WALKER DRILLING DRILLER A. WALKER DRILL TYPE -----
 DATE COMMENCED ----- COMPLETED 8/5/80 -----

BORE INTERVAL (METRES)	GEOLOGICAL LOG & COMMENTS	INTERVAL (METRES)	ASSAY %		
			SiO ₂	Al ₂ O ₃	LOI
0 - 2.95	clay & conglomerate	0 - 2.95	NO	SAMPLE	
2.95 - 4.70	medium hard, fine to medium grained white quartzite with clay seams on joints, iron staining with possible minor clay on joints & bedding planes. Bedding crosses core axis at 45° indicating near vertical dip.	2.95 - 4.70	98.2	0.97	0.17
4.70 - 5.80	predominantly fine grained hard, well silicified white quartzite. Med grained band from 4.70 to 4.71	4.70 - 5.80	98.0	1.00	0.18
5.80 - 8.40	As above with fracture zones containing clay at 5.80 & 6.30 & 8.35				
8.40 - 8.70	Fine grained, hard white quartzite with iron staining on joints & fractures - broken core with minor clay on fracture faces.	5.80 - 8.70	95.5	1.11	0.26
8.70 - 10.25	No core recovered.				
10.25 - 10.95	Fine grained, well silicified, hard white quartzite - minor clay on joints.				
10.95 - 11.55	As above with iron staining on joints & bedding				
11.55 - 11.92	Fine grained hard white quartzite grading to coarser grained softer quartzite at 11.92	10.25 - 12.17	98.4	0.96	0.22
11.92 - 12.17	Probable iron stained				

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THE BROKEN HILL PTY. CO. LTD.

PROJECT

DRILL HOLE *WD 1*

LOCATION

CO-ORDINATES - LOCAL

- A.M.G.

ANGLE OF DEPRESSION

BEARING (MAG)

DRILLING CO.

DRILLER

DRILL TYPE

DATE COMMENCED

COMPLETED

BORE INTERVAL (METRES)	GEOLOGICAL LOG & COMMENTS	INTERVAL (METRES)	ASSAY		
			SiO ₂	A/20 ₃	LOI
12.17 - 12.95	No core recovered				
12.95 - 14.45	Fine grained white quartzite with minor fractures - becoming more highly silicified & harder towards 14.45	12.95 - 15.95	98.8	0.74	0.07
14.45 - 17.20	Iron stained, medium to fine grained quartzite - close to fault zone.				
17.20 - 17.50	Broken, iron stained & vuggy Quartzite - main fault line at 17.30	15.95 - 18.95	98.7	0.74	0.11
17.50 - 19.24	Fine to medium grained hard quartzite with quartz veinlets & sporadic iron staining - shears on bedding planes with clay at 18.70	18.95 - 21.95	99.0	0.39	0.03
19.24 - 21.95	Fine grained, well cemented, hard quartzite with less iron staining & no quartz veinlets.				
21.95 - 24.20	Iron stained vuggy medium grained quartzite	21.95 - 24.95	98.3	0.45	0.26
24.20 - 28.05	Fine grained, harder white quartzite - clay on partings between beds at 24.20	24.95 - 27.95	98.5	0.57	0.26
		27.95 - 30.95	98.5	0.67	0.27
28.05 - 32.70	More broken & iron-stained quartzite. Manganese? staining on shear at 28.50 - vuggy at 30.70 - med grain	30.95 - 33.95	97.8	0.68	0.13
32.70 - 34.05	Medium grained, harder, cleaner quartzite - clay on bedding plane at 33.10	33.95 - 34.05	97.6	1.02	0.31

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THE BROKEN HILL PTY. CO. LTD. PROJECT _____ DRILL HOLE WD 1
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 DRILLING CO. _____ DRILLER _____ DRILL TYPE _____
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BORE INTERVAL (METRES)	GEOLOGICAL LOG & COMMENTS	INTERVAL (METRES)	ASSAY					
			SiO ₂	A/2O ₃	LOI			
34.05 - 44.25	Fine grained, very hard - well cemented quartzite. Shows random fracturing and mottled iron staining down to 35.80. & at 40.30. -occasional minor clay on bedding	36.95 - 39.95	97.6	1.02	0.45			
		39.95 - 42.95	98.6	0.85	0.22			
		42.95 - 44.25	98.4	0.90	0.23			
44.25 - 44.75	Fractured zone of medium grained quartzite with clay on partings.	44.25 - 46.80	98.3	1.02	0.33			
44.75 - 46.80	Less fractured, medium grained, softer, slightly iron-stained quartzite							
46.80 - 74.10	Fine to medium grained, strongly cemented, hard white quartzite - random fracture pattern & indistinct bedding. Quartz veining becoming more prevalent with depth - veins up to 5cm in thickness from 51.60 down	46.80 - 49.80	98.0	1.33	0.32			
		49.80 - 52.80	98.5	0.94	0.24			
		52.80 - 55.80	98.7	0.80	0.24			
		55.80 - 58.80	98.5	0.78	0.29			
		58.80 - 61.80	98.4	0.89	0.28			
		61.80 - 64.80	97.8	1.51	0.39			
		64.80 - 67.80	97.9	1.38	0.32			
		67.80 - 70.80	98.3	0.83	0.31			
		70.80 - 73.80	98.6	0.76	0.29			
74.10 - 75.53	Fault zone with secondary quartz veining & iron staining - some clay - very broken core	73.80 - 75.53	97.8	1.00	0.44			
75.53 - 79.20	Uniformly fine grained, very hard, white quartzite - minor shearing on bedding with clay, small quartz veinlet with pyrite at 77.46	75.53 - 78.53	97.7	1.10	0.21			
		78.53 - 79.20	97.4	0.93	0.03			

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		INTERVAL (METRES)	SiO ₂	A/2O ₃	LOI
79.20 - 79.30	Fine grained quartzite, very hard bit of dark coloration in seam like occurrence.	79.20 - 79.30	96.1	2.30	0.40
79.30 - 82.22	Fine grained, well cemented hard quartzite, more fractured than the previous section but re- cemented. Iron staining around small shear at 80.30	79.30 - 82.30	98.3	0.69	0.14
82.22 - 82.93	Very fractured zone - 0.70 m of core lost	82.30 - 83.20	98.5	0.83	0.18
82.93 - 83.20	Iron stained softer quartzite adjacent to above fault zone.				
83.20 - 86.50	Fine grained, well cemented white quartzite with re- cemented fractures & minor iron staining on fractures, - clay hard. 5cm thick at 84.50m	83.20 - 86.20	98.7	0.54	0.18
86.50 - 87.3	Hard, well cemented white quartzite - less fractured than above	86.20 - 89.20	98.7	0.73	0.19
87.3 - 89.40	Coarser grained, apparently more weathered & softer slite quartzite with iron staining on shears.				
89.40 - 92.20	Fractured & re-cemented hard, fine grained quartzite	89.20 - 92.20	98.7	0.69	0.17
	- minor iron staining in places, minor clay	92.20 - 95.20	98.8	0.43	0.09

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		INTERVAL (METRES)	SiO ₂	Al ₂ O ₃	LOI
89.40 - 95.80 cont.	of green/yellow colour on bedding shears.	95.20 - 96.40	98.2	0.85	0.22
95.80 - 96.20	More fractured quartzite, — many more shears with minor clay.				
96.20 - 96.40	As above but coarser grained.				
96.40 - 97.85	Hard, well cemented, fine grained white quartzite - iron stained zone from 97.36 to 97.41	96.40 - 99.40	98.8	0.49	0.13
97.85 - 99.40	Softer, coarser grained, fractured & re-cemented quartzite alternating with more silicified sections.				
99.40 - 100.12	Fine grained, white, very hard quartzite with minor quartz veinlets - very well silicified	99.40 - 102.40	98.6	0.64	0.22
100.12 - 102.35	Less silicified, softer white quartzite				
102.35 - 102.80	Very fine grained, hard, white quartzite - fractured & re-cemented - slightly iron stained with some dark staining - variegated?	102.40 - 104.00	98.4	0.90	0.23
102.80 - 104.00	Very hard, fine grained, well cemented, white quartzite.				
	E.O.H.				