Rpt 2252

40 030

DRILLING TARGET:— To test the "Tasmania" gold/quartz reef at depth 2,000 ft.

REMARKS:— Tasmania ore body intersected from 1689 ft. to 1707ft.8ins. down hole.

SURVEY DATA			ASSAY DATA							ASSAY RESULTS									
DEPTH feet	Bearing mag. (302)	Inclin. degs.	SAMPLE No.	FROM ft. ins.	TO ft. ins.	RECOVERY ft. ins.	%	Au	SiO_2	Fe	Al_2O_3	P	CaO	MgO	S	Ign Loss	
0	299	85	B1	151 0	170 0	2 0	11	NIL									
65		85½	2	213 0	238 0	24 6	98	0.83	0.17	0.19	.053	54.39	0.30	0.72	43.30		
100		84½	3	238 0	263 0	22 0	88	0.51	0.40	0.09	.007	53.98	0.45	0.32	43.55		
200		82½	4	263 0	288 0	24 0	96	0.75	0.24	0.16	.021	54.18	0.30	.105	43.05		
240	286°	82	5	288 0	313 0	19 6	78	0.57	0.64	0.16	.021	53.98	0.21	.041	43.02		
290	277	82	6	313 0	338 0	4 0	17	0.70	0.20	0.21	.028	53.37	0.67	.070	43.43		
330	284	83	7	338 0	363 0	5 0	20	1.28	0.16	0.19	.032	54.09	0.30	.019	43.11		
400	279	82	8	363 0	388 0	20 0	80	1.43	0.40	0.28	.027	52.95	0.52	.088	42.83		
500	273	82	9	388 0	413 0	20 0	80	0.85	0.24	0.17	.016	54.09	0.23	.088	43.20		
600	271	81	10	413 0	438 0	20 0	80	1.02	0.22	0.13	.020	54.09	0.15	.093	43.99		
700		80	11	438 0	463 0	13 6	54	0.73	0.26	0.11	.010	54.19	0.23	.175	43.12		
800	261	80	12	463 0	488 0	18 0	71	0.78	0.24	0.14	.008	54.09	0.30	.135	43.11		
			13	488 0	513 0			100	0.26	0.13	.019	54.21	0.33	.058	43.15		

Limestone to B.H.P. for Anal.

GEOLOGICAL LOG

Logged by:— A.J.Noldart

FROM ft. ins.	TO ft. ins.	RECOVERY ft. ins.	%	DESCRIPTION	SECTION Core	SECTION Sample
0 0	13 0	—	—	Old mine talus	5"	
13 0	15 0	2 0	100	Yellow Clay		
15 0	25 0	1 0	10	Yellow clay , sand, gravel, etc.		
25 0	36 0	SLUDGE		Sand and black clay		
36 0	40 0	2 0	50	Weathered slates	No.4	
40 0	50 0	1 0	10	Black and gray slates - small seams of Pyrite		
50 0	65 0	1 0	7	Gritty black slates, highly sheared - probable fault zone	Cleavage angle to core	
65 0	200 0	20 6	15	Black and gray slates, pyrite stringers and small nodules, - shistosity/cleavage patterns extremely variable from 60° to core axis to 15° - slate badly ground up in some sections.	50°	
				24" of vuggy, white quartz in 151'-170' zone - core broken - pyrite in part-probably acute to line of hole.		
200 0	213 0	1 3	10	Gritty black material - appears to be mixture of shattered shales pyrite etc. - appears nodular in part. - carbonate rock.	60°	
213 0	253 0	39 0	98	Hard blue limestone recrystallised calcite veining and blebs common	60°	

Continued over:—

DEPARTMENT OF MINES — TASMANIA

DIAMOND DRILL CORE RECORD

HOLE No.:— B4	MAP SHEET No. 30	DISTRICT Beaconsfield	LOCATION OF SITE:— Tasmania Gold Mine

467 ft. bearing 45° mag. from centre of Grubbs Shaft

Core held M43-47

R.L. OF SITE:—	SITE SURVEY ON MAP No.:— 3026/30	CORE SIZE:— No.4, BX
BEARING OF HOLE:— 299° mag.	AIR PHOTO No.:— Run 5 Beac. 65chn. Photo 99	COMMENCED:— 22/6/64
INCLINATION OF HOLE:— -85°	DRILL:— 30 H.D. Joy-Sullivan	COMPLETED:— 11/3/66
CO-ORDS. OF SITE:— 484300E 5438700N.	DRILLER:— D.R. Hardman	FINAL DEPTH:— 1 805 ft.

Index Page:—

Hole B4 — GEOLOGICAL LOG — 40 031 — Page:— 2

FROM ft. ins.	TO ft. ins.	RECOVERY ft. ins.	RECOVERY %	DESCRIPTION	SECTION Core	SECTION Sample
253 0	256 6	1 0	29	Leached zone at start of run - limestone soft, friable, very porus - probable fault or fracture zone	Cleavage.	
256 6	295 8	37 9	96	Hard blue limestone as above - contorted in places - strongly carbonated on joints over last 2 feet.	60°	
295 8	302 0	1 0	16	Porous partly leached limestone-movement planes, slickensiding etc, carbonaceous in fault planes.	50°	
302 0	310 0	4 0	50	Slightly leached limestone	40°	
310 0	360 0	8 5	17	Porous friable, leached limestone,		
360 0	436 0	60 6	80	Hard blue limestone with slightly porous zone 386'-389'	40°	
436 0	436 6	0 6	100	Porous leached limestone	35°	
436 6	445 0	7 3	85	Hard blue limestone		
445 0	445 6	0 6	100	Porous leached limestone	30°	
445 6	454 6	2 6	28	Hard blue limestone		
454 6	459 0	1 6	33	Porous leached limestone	5°	
459 0	625 0	117 4	71	Hard blue limestone-water channel 461'-462' - slightly porous zones 505'-510' and 516'-528'	45° Fold zone	
625 0	660 0	3 6	10	15" Gray porous leached limestone 27", Hard Blue, limestone.	@ 445' - 542'	
660 0	710 0	5 6	11	Fine grained porous black carbonate rock with pockets of black carbonate sand	45°	
710 0	740 0	3 31	11	Interbedded thin bands of hard blue limestone and porous black carbonate rock. Breccia zone approx. 720'.	50°	
740 0	748 0	1 3	16	Hard blue limestone		
748 0	764 0	2 3	14	3" porous black carbonate rock pebbles and balance hard blue limestone - END GORDON L'STONE		
764 0	774 0	9 0	90	Becoming blebby and mottled with shaley partings in darker sections - mottling parallel to cleavage - i.e. COMMENCE TRANSITION BEDS	50°	

Continued over

ASSAY DATA

SAMPLE No.	FROM ft. ins.	TO ft. ins.	RECOVERY ft. ins.	RECOVERY %	ASSAY RESULTS SiO2	Fe	Al2O3	P	CaO	MgO	Ign. Loss	S
B.14	513 0	538 0	18 0	71	1.20	0.28	0.20	0.015	54.11	0.33	43.15	0.049
15	538 0	563 0	18 0	71	1.15	0.33	0.10	0.032	54.11	0.38	42.15	0.095
16	563 0	588 0	18 0	71	1.55	0.28	0.08	0.006	53.69	0.45	43.07	0.094
17	588 0	613 0	18 0	71	1.40	0.56	0.18	0.010	53.48	0.30	42.95	0.210
18	613 0	638 0	10 0	40	1.75	0.19	0.30	0.009	53.48	0.45	43.03	0.053
19	638 0	660 0	2 6	10	2.15	2.31	0.23	0.026	50.34	0.30	42.11	0.063
	5040	100 0	Black Shale									
	100 0	170 0	Samples			See B.H.P. file			E10/26			
	at	725'	Black Carb rock									

Samples to B.H.P. for analysis — Spectro analy

Index Page:—

Hole B4 GEOLOGICAL LOG 40 032 Page:— 3

FROM ft.	FROM ins.	TO ft.	TO ins.	RECOVERY ft.	RECOVERY ins.	RECOVERY %	DESCRIPTION	SECTION Core	SECTION Sample
774	0	809	0	31	6	90	grey massive lime rocks some shaley partings minor charges in texture every few inches	Cleavage	Bedding
							with 3" recemented breccia zone at approx.	45°	
							789' - minor faulting common with fault zone		50°-55°
							at 783' - Colour varies occasionally to greenish with some mottling and banding.	30°	
809	0	898	0	84	0	95	Ditto- impure limestones mainly gray green and mottled in colour with band of blue limestone		40°
							up to 12" width - bedding planes very distinct		38°
							- small fault approx. 844'		45°
898	0	900	0	2	0	100	Black to gray banded lime sandstone grading to impure limestones as above	45°	40°
900	0	916	0	15	0	94	Impure limestone with occasional zones of sandstone grainsize		55°
916	0	918	0	2	0	100	Dark gray banded lime sandstone		
918	0	938	0	19	0	96	Sandstone grain size carbonitic rock		50°
938	0	940	0	2	0	100	Dark gray banded lime sandstone		
940	0	977	0	36	0	97	S.S. grain size carbonitic rock as above - some dark gray mottled zones	50°	45°
977	0	979	6	2	6	100	Poor quality limestone		
979	6	1007	0	27	6	100	Fine grained calcareous sandstone with shaly silty partings.		40°
1007	0	1008	0	1	0	100	Pink fossiliferous limestone.		
1008	0	1017	6	9	6	100	Calcareous sandstone siltstone with small carbonate bands		45°
1017	6	1018	6	1	0	100	Pink heamatitic fossiliferous limestone		50°
1018	6	1132	0	113	6	93	Alternating gray siltstone sandstone with numerous bands of fossiliferous carbonate rock (limestone) up to 6 inches width -		45°
							narrow shale bands common		50°
1132	0	1133	6	1	6	100	Fossiliferous limestone		
113	6	1166	0	32	0	98	Fine grained sandstone with silty and shaly partings becoming medium grained - narrow		50°
							shale bands common.		55°

Continued over

SURVEY DATA ~~ASSAY DATA~~

SAMPLE No.	FROM ft.	FROM ins.	TO ft.	TO ins.	RECOVERY ft.	RECOVERY ins.	RECOVERY %	ASSAY RESULTS
Depth	Bearing		Inclin.					
800	261°		80½					
900	250		80					
1000	251		79½					
1100	(238½		79½					
	(241½		79½					
1200	(239½		79½					
	(245		79					
1300	(239		78½					
	(244		78½					

Index Page:—

88674

Hole B4 GEOLOGICAL LOG 40 033 Page:—4

FROM ft.	FROM ins.	TO ft.	TO ins.	RECOVERY ft.	RECOVERY ins.	RECOVERY %	DESCRIPTION	SECTION Core	SECTION Sample
1166	0	1166	6	0	6	100	Pale gray limestone.		Bedding
1166	6	1167	0	0	6	100	Gray siltstone.		50°
1167	0	1169	6	2	6	100	Pale gray mottled limestone.		
1169	6	1170	6	1	0	100	Gray siltstone.		45°
1170	6	1171	9	1	3	100	Pale gray limestone.		
1171	9	1193	6	21	9	100	Fine to medium grained sandstone and sandy siltstone.		45° 50°
1193	6	1199	9	3	3	100	Pale gray limestone with fine shaly partings.		55°
1199	9	1204	0	4	3	100	Fine to medium grained sandstone and sandy siltstone.		45°
1204	0	1205	0	1	0	100	Pale gray limestone.		
1205	0	1211	0	6	0	100	Fine grained sandy siltstone and quartzite.		55°
1211	0	1212	0	1	0	100	Pale gray mottled limestone.		
1212	0	1217	0	5	0	100	Fine grained sandy siltstone and quartzite.		
1217	0	1220	0	3	0	100	Very fine grained quartzite.		45°
1220	0	1241	0	19	0	100	Fine grained sandy siltstone-shaly in parts.		
1241	0	1242	6	1	6	100	Fine grained banded limestone and siltstone.		
1242	6	1266	0	23	6	100	Fine grained sandy quartzite.		
1266	0	1271	0	5	0	100	Layered limestone and quartzite bands.		55°
1271	0	1305	0	34	0	100	Mainly fine grained quartzite with shale bands and partings.		
1305	0	1305	6	0	6	100	Pale gray mottled limestone.		
1305	6	1310	0	4	6	100	Pale gray f.g. quartzite.		45°
1310	0	1310	6	0	6	100	Pale gray limestone.		
1310	6	1315	0	4	6	100	Gray quartzite with shale partings.		
1315	0	1315	9	0	9	100	Pale gray limestone.		50°
1315	9	1333	0	17	3	100	Mainly gray quartzite with some narrow limestone bands and shale partings - hardness variable near shales.		50°
1333	0	1333	2	0	2	100	Fossiliferous limestone (Specimen)		
1332	2	1430	6	98	6	100	Mainly gray quartzite with occasional limestone bands and shale partings.		45°
							3" Shear zone at 1380'.		55°

Continued over

SURVEY DATA ~~ASSAY DATA~~

SAMPLE No.	FROM ft.	FROM ins.	TO ft.	TO ins.	RECOVERY ft.	RECOVERY ins.	RECOVERY %	ASSAY RESULTS
Depth	Bearing		Inclin.					
1400	234		77½					
	230		77					
1500	225		75½					
1600	228½		75½					
	231		75					
1710	224		73					

Hole B4 GEOLOGICAL LOG 40 034 Page:— 5

FROM ft. ins.	TO ft. ins.	RECOVERY ft. ins.	%	DESCRIPTION	SECTION Core	SECTION Sample
				Longitudinal fault along core from 1417' to 1421'. 6" quartz along fault at 1418'.		Bedding
1430 6	1443 0	12 6	100	Light gray quartzite with numerous shale portions.		45°
1443 0	1452 0	9 0	100	Dark gray quartzite.		
1452 0	1469 0	17 0	100	Light gray quartzite with numerous shale partings up to 2" in width.		50°
1469 0	1469 6	0 6	100	Pale gray limestone.		
1409 6	1473 0	3 6	100	Light gray quartzite.		
1473 0	1473 6	0 6	100	Pale gray limestone.		60°
1473 6	1480 0	6 6	100	Gray quartzite.		
1480 0	1480 6	0 6	100	Pale gray limestone.		
1480 6	1505 0	24 6	100	Quartzite sandstone with numerous shale partings and blebby carbonate zones - hardness very variable		50°
1505 0	1505 6	0 6	100	Carbonate zone.		
1505 6	1510 0	4 6	100	Quartzite/sandstone.		55°
1510 0	1510 6	0 6	100	Carbonate zone.		
1510 6	1524 0	13 6	100	Quartzite/sandstone with shale partings.		
1524 0	1524 2	0 2	100	Quartz vein.		60°
1524 2	1525 6	1 4	100	Pale gray fossiliferous limestone.		
1525 6	1535 0	9 6	100	Quartzite with minor silty zones.		
1535 0	1537 0	2 0	100	Fossiliferous limestone.		65°
1537 0	1579 0	42 0	100	Gray quartzite with shale/carbonate partings and some minor quartz veinlets.		
1579 0	1586 6	7 6	100	Hard carbonate/sandstone with shale lenses.		
1586 6	1590 0	3 6	100	Gray quartzite.		50°
1590 0	1605 0	15 0	100	Hard carbonate/sandstone with very numerous shale lenses.		
				Faulted and drag folded from 1597' to 1599'		50°
1605 0	1606 0	1 0	100	Carbonate zone.		
1606 0	1610 0	5 0	100	Carbonate sandstone with numerous shale partings up to 1".		55°

Continued over

ASSAY DATA

SAMPLE No.	FROM ft. ins.	TO ft. ins.	RECOVERY ft. ins.	%	ASSAY RESULTS

Hole B4 GEOLOGICAL LOG 40 035 Page:— 6

FROM ft. ins.	TO ft. ins.	RECOVERY ft. ins.	RECOVERY %	DESCRIPTION	SECTION Core	SECTION Sample
1610 0	1656 0	46 0	100	Mainly gray quartzite with some shale lenses up to 1" and minor carbonate zones.		Bedding
1656 0	1659 0	3 0	100	Blebby carbonate/sandstone zone.		55°
1659 0	1667 0	8 0	100	Mainly gray quartzite.		
1667 0	1676 0	9 0	100	Interbedded quartzite and blebby carbonate zones.		60° 60°
1676 0	1689 0	13 0	100	Mainly quartzite with some shale partings and occasional small blebby carbonate zones. Fault zone from 1688'9" to 1689'.		55° 60° 65°
1689 0	1707 8	18 8	100	Ore zone. Quartz/siderite lode formation strongly impregnated with sulphides including pyrite, chalcopyrite, sphalerite, arsenopyrite, (tetrahedrite, recorded earlier). Visible coarse gold in some sections-log as follows 1689'0" to 1693'0" quartz siderite lode formation heavily impregnated with sulphides- progressively less sulphides. 1693'0" to 1695'9" as above - low sulphide content. 1695'9" to 1697'9" Quartz/siderite/sulphides as above. 1697'9" to 1698'9" Quartz vein with coarse visible gold and minor sulphides. 1698'9" to 1702'0" Quartz/siderite/sulphide lode leached over last 6 inches. 1702'0" to 1704'0" Quartz vein with coarse visible gold and minor sulphides. 1704'0" to 1705'9" Slightly mineralized gray quartzite. 1705'9" to 1706'11" Quartz vein with visible coarse gold and minor sulphides. 1706'11" to 1707'8" Mineralized chert.		
1707 8	1715 6	7 10	100	Gray quartzite, lightly mineralized along		

Continued over

ASSAY DATA

SAMPLE No.	FROM ft. ins.	TO ft. ins.	RECOVERY ft. ins.	RECOVERY %	ASSAY RESULTS Au dwts.		Au dwts	Ag dwts	Cu%	As%	Pb%	Zn%	S%
B 20	1689 0	1691 0	2 0	100	23.0								
B 21	1691 0	1693 0	2 0	100	10.7	Ave	77.0						
B 22	1693 0	1695 0	2 0	100	1.7	Wt.A.	21.96						
B23	1695 0	1697 0	2 0	100	7.5	Ct.A.	34.71						
B 24	1697 0	1699 6	2 6	100	18.3	Comp.	60.20	4.7	1.06	1.49	0.10	0.80	7.5
B 25	1699 6	1702 0	2 6	100	35.3								
B 26	1702 0	1704 0	2 0	100	591.0				Mo%	0.49	Sb%	0.015	
B 27	1704 0	1706 0	2 0	100	2.0								
B 28	1706 0	1707 8	1 8	100	19.1				Li%	Nil			

Hole B4 — GEOLOGICAL LOG — 40 C3C — Page:— 7

FROM ft.	FROM ins.	TO ft.	TO ins.	RECOVERY ft.	RECOVERY ins.	RECOVERY %	DESCRIPTION	SECTION Core	SECTION Sample
							a ½ inch quartz vein at 1709'6" and 1713' - grading into dark gray quartzite		Bedding
1715	6	1736	2	20	8	100	Very dark to black quartzite with grit and pebble horizons. Fractured and broken ½ inch quartz veins in probable fault zones at 1718' and 1723'. Dissem. pyrite throughout and some some minor carbonate veins.		
1736	2	1736	5		3	100	Quartz vein with sulphides.		
1736	5	1742	0	5	7	100	Black quartzite as above with disseminated pyrite and pyrite crystals on open joint faces.		
1742	0	1748	0	6	0	100	Gray quartzite.		43°
1748	0	1748	4		4	100	Breccia zone.		
1748	4	1752	9	4	5	100	Black quartzite as above.		45°
1752	9	1766	6	13	9	100	Pale gray pebble conglomerate with siderite cementing matrix - some leaching throughout and pyrite dissemination around pebbles - pebble size variable. CABBAGE TREE CONGLOMERATE	CONTACT	38°
1766	6	1774	0	7	6	100	Black quartzite as above with more numerous pebble bands etc. 6" breccia zone at 1771'.		32°
1774	0	1805	0	31	0	100	Pale gray pebble conglomerate as above.	CONTACT	37°
							END OF HOLE.		

Continued over

ASSAY DATA

SAMPLE No.	FROM ft.	FROM ins.	TO ft.	TO ins.	RECOVERY ft.	RECOVERY ins.	RECOVERY %	ASSAY RESULTS Au Dwts.
B 29	1707	8	1709	8	2	0	100	0.7
B 30	1736	2	1736	5	0	3	100	3.10