COMPANY: Beaconsfield Gold N.L.
PROJECT: Beaconsfield Mine
HOLE NUMBER: B 21

Commenced:	07 Dec 93
Completed:	03 Feb 94
Logged By:	L.A.Newnham
Drilled By:	Dia.Drill Tas.

Purpose of Hole

To test the eastern end of the Tasmania Reef approximately 100 metres below the former mine workings, midway between previous drilling to the west and the projected eastern limit of the reef.

Comments on Completion

B21 intersected the Tasmania Reef where planned, approx. 550 m. beneath surface and 90m. east of B4B; the reef was a well defined qtz and qtz-carbonate-sulfide fault zone with very sharp walls; 2.8m drill width and estm. true width 1.7m., horiz. width 2.0m; B21 was retained whole for further test work and a second sample wedged hole B21(A) was drilled immediately adjacent to B21 and the whole core from B21(A) was assayed.

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
AMG	38736.4	484634.8	2041.2	-88.5	109

Length (m)
591.0

Hole Size	
To (m)	Size
6.0	PW
100.0	HW
174.6	HQ
591.0	NQ

Significant Core Loss Zones

From	To	%Rec.
0.0	100.0	0
249	266.0	cave zone

Hole Condition on Completion

all steel casing removed from hole; 6.0m PVC PW casing left cemented in top of hole steel cap placed over top of hole;

Summary of Results

Depth		Recovery	Description	Assays							
From	To	%		Length	Au	Ag	Cu	Pb	Zn	As	S
core from B21 was not assayed; whole core from immediately adjacent B21(A) was assayed:											
B21(A) Results:											
549.6	550.6	100	HW siltstones, veined and with dissem. sulfides	1.0	0.106	<2	20	30	353	200	0.56
550.6	553.4	100	Tasmania Reef: well defined qtz-carb-sulfide fault zone	2.8	15.90	2	0.07%	0.03%	0.24%	1.64%	4.34%
553.4	554.4	100	*FW siltstones, qtz-carb veined with minor sulfides*	1.0	1.33					2040	

DOWN HOLE SURVEY DATA

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Depth	Dip	Bearing	Interval		Length	Vertical Distance		Horizontal Distance		Co-ordinates			
(m)		(AMG)	From	To	(D)	D.sin dip	R.L.	D. cos dip (HD)	Cumulative HD	N. distance HD. cos brg.	N. co-ordinate	E. distance HD. sin brg.	E. co-ordinate
COLLAR	0	0					2041.20		0.00		38,736.4		484,634.8
0	-88.5	109	0	53	53	52.98	1988.22	1.39	1.39	-0.45	38,735.9	1.31	484,636.1
106	-88.2	109	53	121	68	67.97	1920.25	2.08	3.46	-0.68	38,735.3	1.96	484,638.1
136	-88.4	95	121	153	32	31.99	1888.26	0.89	4.36	-0.08	38,735.2	0.89	484,639.0
170	-89.5	211	153	185	32	32.00	1856.26	0.28	4.64	-0.24	38,735.0	-0.14	484,638.8
200	-88.5	268	185	215	30	29.99	1826.27	0.79	5.42	-0.03	38,734.9	-0.78	484,638.0
230	-88.2	258	215	245	30	29.99	1796.29	0.94	6.36	-0.20	38,734.7	-0.92	484,637.1
260	-88	260	245	275	30	29.98	1766.31	1.05	7.41	-0.18	38,734.5	-1.03	484,636.1
290	-87.2	266	275	305	30	29.96	1736.34	1.47	8.88	-0.10	38,734.4	-1.46	484,634.6
320	-85.5	256	305	335	30	29.91	1706.44	2.35	11.23	-0.57	38,733.9	-2.28	484,632.3
350	-84.7	258	335	358.5	23.5	23.40	1683.04	2.17	13.40	-0.45	38,733.4	-2.12	484,630.2
367	-83.5	256	358.5	383.5	25	24.84	1658.20	2.83	16.23	-0.68	38,732.7	-2.75	484,627.5
400	-83	255	383.5	415	31.5	31.27	1626.93	3.84	20.07	-0.99	38,731.7	-3.71	484,623.8
430	-81	247	415	443.5	28.5	28.15	1598.78	4.46	24.53	-1.74	38,730.0	-4.10	484,619.7
457	-79.9	245	443.5	473.5	30	29.54	1569.25	5.26	29.79	-2.22	38,727.8	-4.77	484,614.9
490	-79	246	473.5	508	34.5	33.87	1535.38	6.58	36.37	-2.68	38,725.1	-6.01	484,608.9
526	-78.2	247	508	558.5	50.5	49.43	1485.95	10.33	46.70	-4.04	38,721.1	-9.51	484,599.4
591	-77.5	246	558.5	591	32.5	31.73	1454.22	7.03	53.73	-2.86	38,718.2	-6.43	484,592.9
591													

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To						
0.0	12.0	PW tricone to 6.0 m., cased with PVC pipe; HW tricone to 12 m. in yellow clays (? weathered limestone);	0	100	0	0	99.7	0								
12.0	100.0	**GRAPHITIC SHALES:** HW tricone; black cuttings from graphitic shales, and minor dark gray limestone beds;														
100.0	118.5	**GRAPHITIC SHALES and MINOR LIMESTONE:** graphitic shales, black-dark gray, soft; BCA variable but generally low 0-30; minor dark gray limestone beds; occasional thin (<1mm) calcite veining; 105.8m: 5 cm. qtz-carb. vein; 113.0m: qtz-carb vein rubble; pyrite 0-0.5% as streaks, blebs and bedding parallel veinlets; core moderately competent to 104m., then extremely broken, especially along graphitic bedding plane surfaces; present as rubble in some intervals; some core loss;	100 112.1 113 115.1	112.1 113 115.1 118.3	100 89 71 62	99.7 103.9 107.2 110.5 114.5	103.6 107.2 110.5 114.5 119.8	33 6 12 0 0									
118.5	187.5	**LIGHT GRAY LIMESTONE:** massive light gray limestone, sharp contact with unit above; significant carbonaceous component in some intervals resulting in darker coloration; stylolites abundant; BCA variable but typically 30-40; pervasive network of 1-10mm. wide white calcite veins, often discontinuous and ptygmatically folded; minor pyrite (0.5%) as euhedral grains and aggregates, in stylolites, occasionally in calcite veins and within limestone proper; core broken to 122m., then very competent- many breaks are driller breaks; fracturing most common along bedding planes or stylolites; wide spaced jointing 5-15 CA; occasional narrow broken zones; 121 m: limestone crinoidal ?	118.3 120.7 123.8 126.4	120.7 123.8 126.4 187.5	56 77 81 100	119.8 125 129.3 133.8 147.1 151.6 156.1 160.2 165 174.3 180.6	125 129.3 133.8 147.1 151.6 156.1 160.2 165 174.3 180.6 187.5	44 35 53 76 40 62 76 58 46 40 20									

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Description			Core Recovery			RQD			Assays								
From	To		From	To	%	From	To	%	From	To							
118.5	187.5	....cont..... 172, 173.8 m.: coarse crystalline calcite veins 45 CA reduced to NQ at 174.6 m. limestones becoming darker with depth; 175.3 - 178.3: limestone breccia with dark gray limestone and several large siltstone fragments set in white calcite groundmass;															
187.5	202.0	**DARK GRAY LIMESTONE:** dark gray well bedded limestone cut by numerous thin 1-5 mm calcite veins typically at high angle to CA; BCA 35-40; 201.5: limestone breccia zone; black stylolites abundant; 0.5% pyrite as disseminations, blebs, veinlets both in limestone and calcite veinlets; core moderately broken, several joint directions, ranging from 10-70 CA, typically calcite coated, and occasionally drusy pyrite; core coated with brown mud deposited from circulating ground water;	187.5	202	100	187.5 193.3	193.3 204.4	33 20									
202.0	249.7	**LIGHTER GRAY LIMESTONE:** transition to lighter gray limestone cut by *intense network of calcite veins 1-200 mm.* thick; gradational with unit above; 202-204.8: zone massive white calcite veins; dark gray stylolites common; BCA variable 10-30; < 0.5% pyrite throughout as dissem., blebs and vellets and abundant in stylolites; 215.9: 20cm. calcite-pyrite vein; core generally competent with many breaks being driller breaks; calcite coated joint sets 45, 70 CA; other fractures bedding parallel and along stylolites; *Limestone-calcite vein breccia zones common;* 241.8-245m: very broken puggy limestone rubble and limestone-calcite breccia material, some core loss;	202 238.5 243.7 245.7	238.5 243.7 245.7 249	100 83 90 100	204.4 210.9 216.9 229.8 242	210.9 216.9 229.8 242 249	78 43 60 45 31									

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To						
249.7	265.4	**CAVERNOUS LIMESTONE:** numerous cavities up to 3m. between zones dark gray finely bedded broken and often puggy limestone; calcite veining up to 10cm common, often parallel to bedding and frequently containing blebs of fine pyrite; 254.4m; 3cm. massive fine grained pyrite followed by 30cm. cement; pyrite probably a cave deposit; 260.6m; 3cm. massive fine grained pyrite followed by cave filling silts and debris; 265.4m.: abrupt change from indurated cave sands to massive crystalline calcite; recoveries in this interval are very poor and core loss zones appeared from drill performance to be water filled caves;	249	251.1	38											
			251.1	252.2	73	249	265.7	10								
			252.2	254.4	64											
			254.4	259.5	10											
			259.5	260.6	18											
			260.6	262.4	17											
			262.4	265.5	26											
265.4	280.8	**CRYSTALLINE CALCITE andMINOR LIMESTONE:** very coarsely crystalline calcite, translucent in part and often with vuggy texture; appears to be secondary precipitation in cave; occasional 5-10 mm. fine grained pyrite beds and drusy pyrite on fractures and in solution voids; *after 276.7m. well bedded light gray limestone* interbedded with 10-20 cm. calcite zones with sawtooth upper surfaces; core broken but with good recoveries to 270m. then ground becomes significantly more competent towards base of cave system; this unit together with unit above indicates a significant cave system from 250 - 280m; BCA in basal limestones generally steep, approx 70;	265.5	267.2	88											
			267.2	270.2	93	265.7	278.5	12								
			270.2	280.8	100	278.5	284.4	58								
280.8	288.3	**LIMESTONE BRECCIA and LIMESTONE:** large blocks of light gray limestone brecciated and slumped in dark gray speckeled calcareous matrix; possibly a zone of secondary collapse and recementing at the base of the cave system above;	280.8	288.3	100											
						284.4	297.3	69								

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To						
288.3	368.0	**LIMESTONE:** medium gray well bedded limestone; BCA 45	288.3	368	100											
		similar to limestone above cave system; pervasive bedding parallel streaks of black (carbonaceous?) material commonly transformed into stylolitic structures; wide spaced <5mm. calcite veins at high angle to bedding; occasional 1-4cm. crystalline calcite veins with stylolitic margins; 0.5% pyrite as coarse aggregates and veinlets; core generally competent with many breaks being driller breaks; some low angled jointing 10 and 30 CA, typically calcite coated; limestone with black shaley partings continues to 321m. then becomes more massive lighter gray mottled limestone with only rare calcite veining; core very competent with most breaks being driller breaks or on bedding parallel joints; BCA 40-45; pyrite as rare disseminated grains and blebs; below 350m.: gradual increase in siltstone - mudstone component either as thin darker colored beds or as minor component in limestone; darker beds may contain fine hematite component; 343.3-344.4m: broken zone with clay on fractures semi parallel to core axis; 344.6-345.8m: brecciated and calcite veined limestone; core remains competent to end of unit with occasional low angled joint coated with calcite and euhedral pyrite; BCA constant 45; pyrite 0.5-1% increasing with depth, finely disseminated in all rock types but more abundantly as blebs aggregates and veinlets in darker hematitic? silty beds; <1mm massive pyrite beds in dark hematitic limestone beds;				297.3	315.9	48									
						315.9	328.8	73								
						328.8	335.1	86								
						335.1	347	52								
						347	362.1	64								
						362.1	368.4	82								

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To						
368.0	430.0	**BANDED CALCAREOUS SILTSTONES and LIMESTONES:**	368	430	100											
		dark gray medium grained calcareous siltstones interbedded with light gray limestones; contact with unit above is gradational and 368m. is very much an arbitary point;				368.4	381.2	74								
						381.2	393.3	61								
						393.3	399.2	85								
						399.2	405.5	76								
		siltstone component increases gradually down hole;				405.5	417.9	65								
						417.9	424	77								
		alternating limestone and siltstone beds 1-10cm. thick give formation a banded appearance;				424	430.1	56								
		dark siltstone beds often fine grained and contain fine grained hematite? .. giving beds a speckeled shiny appearance;														
		BCA consistent 40-45;														
		siltstone commonly has dark gray-black shale-mudstone component;														
		black stylolitic structures common in limestone;														
		occasional thin cream carbonate veins <10mm high angle to bedding;														
		391.5-394: 15mm. qtz vein with carbonate selvages , semi parallel to core axis;														
		<0.5% disseminated pyrite pervasive, occasional semi massive pyrite in thin shaley beds;														
		pyrite common in dark stylolitic structures;														
		core generally very competent with many breaks being driller breaks; 0.5-2m lengths core typical; most fractures bedding parallel along graphitic/hematitic shaley beds; calcite and pyrite common on fracture surfaces;														
		391-394: broken siltstone-limestone intruded by qtz. vein parallel to core axis;														
		below 425m. siltstone dominant component: interbedded dark and light gray fine grained siltstone with occasional thin mudstone-shale bed <10cm.														
		the darker the siltstone, the less calcareous;														
		interbedded coarse grained limestone possibly crinoidal and contains dark hematitic bands;														
		only rare thin calcite veins below 400m;														

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To						
430.0	490.0	**SILTSTONE and LIMESTONE:** gradational with unit above and boundary purely arbitary to reflect dominance of siltstone over limestone; interbedded light gray calcareous and dark gray non calcareous siltstone with coarse grained crinoidal? limestone beds typically 10-20cm. thick; thin non calcareous shale-mudstone beds common; hematitic banding common in limestone; BCA consistent 40-45; occasional <5mm calcite veining; very minor fine grained disseminated pyrite, mainly in siltstone; core competent with many breaks being driller breaks; most fracturing along soft shaley partings and on high angled joints; fractures parallel to bedding often coated with clay or greasy hematite? unit becomes less calcareous and more fractured down hole; 459.9: 20cm. fossiliferous (crinoidal?/shell fragments?) **below 460:** 10-20mm. dark gray shale bands increasing; occasional 5-10mm calcite and qtz-carb. veins at high angle to bedding; limestone often hematitic; core generally competent but becoming somewhat more broken with depth with fractures along shaley beds and on stylolitic surfaces; increase in brittle fracturing with several wide spaced joint directions at high angles to bedding;	430	490	100	430.1	436.6	82								
						436.6	442.9	65								
						442.9	455.4	45								
						455.4	461.6	48								
						461.6	468	62								
						468	474.1	41								
						474.1	480.3	55								
						480.3	486.8	46								
						486.8	492.9	33								
490.0	550.7	***CALCAREOUS SILTSTONE:*** gradational with unit above; light gray medium grained calcareous siltstone with occasional 5-10cm light gray limestone beds and dark gray non calcareous siltstone; several 5-20mm dark gray shale beds , often puggy; BCA consistent 50;	490	550.7	100	492.9	498.9	27								
						498.9	509.9	13								
						509.9	515.6	19								
						515.6	532.3	15								
						532.3	538.3	20								
						538.3	549.2	11								

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au	Ag	Cu	Pb	Zn	As
		...490.0-550.7 cont..... abundance of thin calcite and rare qtz-carbonate veins increasing with depth, *becoming pronounced* below 510m.; mottled 5-10 cm qtz-carbonate veins almost at right angles to strike and dip of bedding; *thin 1-5mm. calcite veins form an* anastomosing network of veins with siltstone having brecciated appearance in places; *rare disseminated pyrite in* siltstone and pyrite blebs in carbonate veins increasing with depth; *Interval very broken (especially 493-525m)* with abundant bedding parallel fractures associated with thin puggy shale beds and greasy (hematitic?) bedding planes, combined with several strong close spaced joint directions, resulting in fragmented blocky core; principal joint direction 20 CA, perpendicular to bedding strike, and 50 & 70 CA with strikes at high angles to bedding; joints often calcite or greasy ?hematite coated; steady improvement in ground conditions below 525m; **below 520m.,** siltstone only weakly calcareous and only very rare 5-10 cm. limestone beds; amount of pyrite in siltstone increasing in depth to 0.5-1% below 530m. as coarse disseminated and euhedral grains, with occasional blebs and stringers; thin shaley beds and fine carbonate veins occasionally contain abundant disseminated pyrite; below 530m. rare grains and needles of arsenopyrite in siltstone and qtz and qtz-carbonate veins; core intensely broken after 540m. along shaley bedding planes and several joint sets; semi massive pyrite on puggy shale partings common after 545m., together with 1-2% coarse dissem. euhedral pyrite in siltstone;								see log of B21(A) for assay information							

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To	Au					As
550.7	553.5	***QUARTZ-SULFIDE FAULT (Tasmania Reef):*** well defined quartz reef with abundant pyrite, arsenopyrite and lesser chalcopyrite; some narrow intervals of fractured and mineralised sandstone and minor carbonate veining; HW and FW contacts with siltstone are both sharp and approx. 40 CA; **550.7-551.2:** fractured qtz vein with minor cream carbonate veining; abundant pyrite and significant fine grained arsenopyrite; several sandstone fragments; **551.2-551.8:** sandstone, highly fractured, cut by numerous 1-10mm. veins pyrite and minor arsenopyrite; also qtz and qtz-carbonate veins containing pyrite and fine grained arsenopyrite; **551.8-552.6:** fractured quartz vein similar to one at start of unit; **552.6-553.3:** fractured qtz vein with bands semi massive sulfide and fractured sandstone-sulfide intervals; abundant pyrite throughout in fractures and veins. Arsenopyrite common as aggregates of needle like crystals and fine disseminations; occasional small blebs chalcopyrite; **553.3-553.5:** fractured sandstone and semi massive pyrite and arsenopyrite with qtz-carb veining; FW marked by 2 cm. qtz-carb-py-aspy. vein; *reef is generally very broken;* some of sulfide veins appear banded and parallel dip of reef;	550.7	553.4	100	549.2	553.5	5	see log B21(A) for assay information through reef							
553.5	570.0	**VEINED and FRACTURED SILTSTONES:** dark gray-black siltstones, calcareous in part, giving core a speckled appearance;cut by occasional 1-5mm. milky qtz veins and later network of cream colored carbonate veins; veins often parallel bedding or joint directions;	553.4	563.7	100											
			563.7	565.3	88	553.5	558.3	7	556.5	557.5	0.100					360
			565.3	591	100	558.3	563.1	12	559.5	560.5	0.46					410
						563.1	568.8	25	564.8	565.3	0.041					90
						568.8	574.3	25	567.5	568.5	0.005					110
						574.3	580	20	569.2	570.2	0.005					80

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To						
		...553.5-570.....cont... thin 1-2 cm. puggy shale beds with greasy bedding plane surfaces; 559.9-560.3m: intensely veined zone resulting in breccia texture; 560.9-561.2m: 2cm. qtz-carb vein semi parallel CA; 564.7-565.3m: qtz-carb siltstone breccia zone with 15 cm. cavity (? equivalent to the eastern FW reef?); minor coarse disseminated pyrite and trace arsenopyrite?: sparse <0.5% pyrite as disseminated grains, often euhedral, clusters and blebs, often concentrated in puggy zones; occasional needle like clusters and disseminated crystals arsenopyrite; core very broken but becoming more competent towards base of unit; fracturing along bedding at 45 CA and several brittle fracturing joint directions; joints sometimes coated with calcite;															
570.0	591.0	**INTERBEDDED LIMESTONE and CALCAREOUS SILTSTONE:** these rocks look more like the anticipated reef FW rocks but no definite FW reef was seen separating this unit from the one above, apart from 5 mm qtz vein and 40cm. brecciated carb vein zone 569.8-570.2m; well bedded sequence of interbedded light gray calcareous siltstone and off white limestones; occasional 5-10mm. calcite and qtz-carb. vein but much less than unit above; occasional thin dark gray shale bed with greasy bedding surfaces (?hematite); sulfides rare; euhedral pyrite grains and ? trace fine arsenopyrite; some leaching of calcite veins; BCA consistent 50; core competency improving with depth; most fracturing bedding parallel; low angled jointing 5-30 CA; several other joint sets,				580 586.3	586.3 591	40 50									
			typically at high angles to bedding :						END OF HOLE							

Newnham Exploration and Mining Services