COMPANY: Beaconsfield Gold N.L.
PROJECT: Beaconsfield Mine
HOLE NUMBER: B20

Commenced:	20 Oct 93
Completed:	04 Dec 93
Logged By:	L.A.Newnham
Drilled By:	Dia.Drill Tas

Purpose of Hole
To test the western end of the Tasmania Reef approx.100 m. west of A6/A7 and at RL 1450, approx. 150 m.beneath the former mine workings.

Comments on Completion
.B20 *intersected a well developed reef structure and a narrow FW reef; the reef was very broken but the wall rocks were competent; the core was left in tact and the whole core from the reef intersection in a second sampled wedged hole B20(A) immediately adjacent to B20 was assayed: encouraging results;*

Collar Details

Grid	Northing	Easting	Elevation	Dip	Bearing
AMG	38609.1	484644.7	2038.7	-90	-

Length (m)
661.8

*** note: B 20 was *wedged off* B 18 at 229m.**

Hole Size	
To (m)	**Size**
661.8	NQ

Significant Core Loss Zones		
From	**To**	**%Rec.**
nil (apart from nav operation		
intervals)		

Hole Condition on Completion
PW casing had disappeared down hole (short length) HW casing could not be moved, so 0-71 m. left HW cased with a casing advancer shell on end; HQ could not be moved, and was cut at 98.7 m. with casing cutter, meaning HQ was left 98.7 - 110.0 m. with a shoe bit on end; a metal plate was welded on top of HW casing just below ground level and covered with soil; re-entry of hole should be no problem;

Summary of Results

Depth		Recovery	Description	Assays							
From	**To**	**%**		**Length**	**Au**	**Ag**	**Cu**	**Pb**	**Zn**	**As**	**S**
The following results were obtained by assaying whole core from B20 (A) which was a wedged hole drilled *immediately adjacent* (<0.5 m) from B20											
620.8	623.0	100	Quartz and quartz - carbonate - sulfide fault	2.2	6.5	<2	0.02	0.01	0.04	0.23	1.69
				ETT 1.4 m., EHT 1.7 m							
624.8	625.1	100	Quartz-carbonate vein	0.3	8.15	<2	0.01	<0.01	0.02	0.10	2.30
				ETT 0.2 m., EHT 0.25 m.							

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	-89.5	320					2038.70		0.00		38,609.1		484,644.7
0	-89.5	320	0	13.5	13.5	13.50	2025.20	0.12	0.12	0.09	38,609.2	-0.08	484,644.6
27	-89	320	13.5	39	25.5	25.50	1999.70	0.45	0.56	0.34	38,609.5	-0.29	484,644.3
51	-89.5	320	39	65	26	26.00	1973.71	0.23	0.79	0.17	38,609.7	-0.15	484,644.2
79	-88.5	6	65	91	26	25.99	1947.71	0.68	1.47	0.68	38,610.4	0.07	484,644.3
103	-87	318	91	115	24	23.97	1923.75	1.26	2.73	0.93	38,611.3	-0.84	484,643.4
127	-86	312	115	139	24	23.94	1899.81	1.67	4.40	1.12	38,612.4	-1.24	484,642.2
151	-85.5	323	139	163	24	23.93	1875.88	1.88	6.28	1.50	38,613.9	-1.13	484,641.0
175	-85	320	163	187	24	23.91	1851.97	2.09	8.38	1.60	38,615.5	-1.34	484,639.7
199	-85	310	187	212.5	25.5	25.40	1826.57	2.22	10.60	1.43	38,617.0	-1.70	484,638.0
226	-84	301	212.5	228	15.5	15.42	1811.15	1.62	12.22	0.83	38,617.8	-1.39	484,636.6
230	-81	276	228	238	10	9.88	1801.28	1.56	13.78	0.16	38,618.0	-1.56	484,635.1
246	-82	295	238	258	20	19.81	1781.47	2.78	16.57	1.18	38,619.1	-2.52	484,632.5
270	-81.5	290	258	272.5	14.5	14.34	1767.13	2.14	18.71	0.73	38,619.9	-2.01	484,630.5
275	-80	292	272.5	282.5	10	9.85	1757.28	1.74	20.45	0.65	38,620.5	-1.61	484,628.9
290	-81	291	282.5	295	12.5	12.35	1744.94	1.96	22.40	0.70	38,621.2	-1.83	484,627.1
300	-79.5	282	295	302.5	7.5	7.37	1737.56	1.37	23.77	0.28	38,621.5	-1.34	484,625.7
305	-79.2	282	302.5	308.5	6	5.89	1731.67	1.12	24.89	0.23	38,621.7	-1.10	484,624.6
312	-77	272	308.5	314.5	6	5.85	1725.82	1.35	26.24	0.05	38,621.8	-1.35	484,623.3
317	-77	270	314.5	320.5	6	5.85	1719.98	1.35	27.59	0.00	38,621.8	-1.35	484,621.9
324	-74.5	266	320.5	328.5	8	7.71	1712.27	2.14	29.73	-0.15	38,621.6	-2.13	484,619.8
333	-74	266	328.5	341.5	13	12.50	1699.77	3.58	33.31	-0.25	38,621.4	-3.57	484,616.2
350	-73	264	341.5	355	13.5	12.91	1686.86	3.95	37.26	-0.41	38,621.0	-3.93	484,612.3
360	-72	262	355	364.5	9.5	9.04	1677.82	2.94	40.20	-0.41	38,620.6	-2.91	484,609.4
369	-70.5	260	364.5	372	7.5	7.07	1670.75	2.50	42.70	-0.43	38,620.1	-2.47	484,606.9
375	-69	259	372	382.5	10.5	9.80	1660.95	3.76	46.46	-0.72	38,619.4	-3.69	484,603.2
390	-67.5	257	382.5	395	12.5	11.55	1649.40	4.78	51.25	-1.08	38,618.3	-4.66	484,598.6
400	-65.5	256	395	407.5	12.5	11.37	1638.03	5.18	56.43	-1.25	38,617.1	-5.03	484,593.6
415	-64	254	407.5	420	12.5	11.23	1626.79	5.48	61.91	-1.51	38,615.6	-5.27	484,588.3

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425	-62.5	252	420	434.5	14.5	12.86	1613.93	6.70	68.60	-2.07	38,613.5	-6.37	484,581.9
444	-61.7	250	434.5	452	17.5	15.41	1598.52	8.30	76.90	-2.84	38,610.7	-7.80	484,574.1
460	-60.7	250	452	462.5	10.5	9.16	1589.37	5.14	82.04	-1.76	38,608.9	-4.83	484,569.3
465	-60.5	249	462.5	476	13.5	11.75	1577.62	6.65	88.69	-2.38	38,606.5	-6.21	484,563.1
487	-59.7	250	476	502	26	22.45	1555.17	13.12	101.80	-4.49	38,602.0	-12.33	484,550.8
517	-59.2	251	502	532	30	25.77	1529.40	15.36	117.17	-5.00	38,597.0	-14.52	484,536.2
547	-58.7	253	532	562	30	25.63	1503.77	15.59	132.75	-4.56	38,592.5	-14.90	484,521.3
577	-58	255	562	592	30	25.44	1478.33	15.90	148.65	-4.11	38,588.4	-15.36	484,506.0
607	-56.5	255	592	634.4	42.4	35.36	1442.97	23.40	172.05	-6.06	38,582.3	-22.60	484,483.4
661.8	-55.5	256	634.4	661.8	27.4	22.58	1420.39	15.52	187.57	-3.75	38,578.6	-15.06	484,468.3
661.8													

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To						
		B 20 was wedged off B19 at 229 m., and coring commenced at 234.2 m.														
			234.2	269.8	100											
234.2	278.0	**LIMESTONE:**	269.8	273.1	0											
		Light gray stylolitic limestone with thin beds			(navi)											
		and partings of brown siltstone-mudstone;	273.1	278	100											
		common 1-10 mm. calcite veins cross cutting				234.2	239.9	30								
		bedding;					246	61								
		1-2% pyrite throughout as fine disseminations					251.8	21								
		and blebs: pervasive in limestones and in					263.9	46								
		stylolites;				(navi)	273.4	26								
		236.9 m.: 20 mm. carbonate breccia with fine					279.8	53								
		pyrite matrix, sub parallel to bedding;														
		BCA consistent 40;														
		some sections strongly fractured by joints sub														
		parallel to CA and 30 CA;														
		joints often healed or coated with calcite;														
278.0	339.5	**HEMATITIC LIMESTONE:**														
			278	293.5	100											
		gradational with unit above but increase in	293.5	299	0	279.8	286	69								
		dark gray-dark reddish brown fine grained			(navi)		292	53								
		hematitic component in limestone;	299	304.8	100	(navi)	303.8	27								
		interbedded lighter gray limestone generally	304.8	310	0	(navi)	314.8	24								
		stylolitic;			(navi)	(navi)	326	31								
		5-10 mm. calcite veins common;	310	316.8	100		332.6	27								
		sparse dissem pyrite;	316.8	322	0		338.4	24								
		several narrow beds crinoidal limestone (eg)			(navi)											
		323.4-323.6m.,	322	339.5	100											
		calcareous siltstone component increasing														
		down hole, becoming dominant component														
		below 330m;														
		core very competent ; most fractures either														
		driller fractures or joints coated with calcite														
		and pyrite 30 and 70 CA;														
		becoming increasingly broken below 330m;														
		BCA 40 increasing to 45-50 down hole;														
339.5	341.7	**MINERALISED FAULT ZONE:**														
		339.5-340.6m.: slumped, brecciated and	339.5	341.7	100											
		veined light gray siltstone and limestone;				338.4	344	12								
		network <5mm., qtz-carb veins;														
		2-3 % dissem. euhedral pyrite;														

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To						
339.5	341.7	cont..... 340.6-341.7: qtz-carb vein 3-5 % coarse dissem euhedral pyrite; unit very broken;														
341.7	448.0	**CALCAREOUS SILTSTONE and LIMESTONE** interbedded light gray calcareous siltstone and light gray-off white stylolitic limestone, occassionally hematitic and crinoidal; proportion of limestone beds gradually decreasing down hole below 395m., with corresponding increase in calc siltst. component; persistent network 0.5-5 mm qtz-carb. veins; very fine <1mm veins common 390-425 m; BCA 55-60; pervasive 1-2 % dissem pyrite often coarsely euhedral, generally in limestones and decreasing to rare dissem. grains below 350 m; 347.6: 20 cm. carb-(qtz) vein with 2-5 % dissem pyrite; vein 40 CA; 354-361: limestone crinoidal; 365-366: several 5-10mm. cream carb-qtz veins; core overall quite broken; limestone beds competent with most fractures along calcite filled fractures parallel to bedding and occassional 20 and 40 CA joints; siltstones very fractured, especially darker less calcareous siltstone-shaley units, mainly along soft greasy shale laminae and several directions of calcite coated joint sets ranging from 10-70 CA; very broken 345-354 m;	341.7	368.8	100											
			368.8	374	0	344	354.6	0								
					(navi)		366.6	30								
			374	410.8	100	(navi)	377.5	9								
			410.8	415.3	0		383.4	17								
					(navi)		389.8	12								
			415.3	448	100		395.6	27								
			core blocks 1m. out;				401.6	17								
			adjusted at 452m				407.7	8								
						(navi)	416.8	16								
							423.1	19								
							428.9	10								
							435	15								
							439.8	12								
							445.8	7								
448.0	496.7	**CALCAREOUS and NON CALCAREOUS SILTSTONES:** gradational with unit above; medium gray calcareous siltstone interbedded with darker gray non calcareous siltstone; occassional thin (<20cm) light gray medium grained limestone bed;	448	496.7	100											
						445.8	458.7	0								
							464.6	7								
							477.2	34								
							495	24								

Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To						
538.2	575.1	....cont.... qtz and qtz-carb veins; veining sometimes intense enough to produce narrow breccia zones: 565.7-566.9 and 569.8-570.7 m; appearance of wavey stylolitic fractures in siltstone, infilled with dark greasy material (hematite?/chlorite?) core generally competent but becoming increasingly fractured with depth; jointing 40 CA, perpendicular to bedding, and some irregular fractures 10-20 CA; joints often calcite coated with occassional drusy pyrite; amount of pyrite steadily increasing 0.5-1.0 % as disseminated grains and aggregates in all rock types;															
575.1	587.3	**GRITS and CONGLOMERATES WITH CARBONATE CEMENT (wet beds ?):** very characteristic grit - conglomerate sequence with rounded qtz, sandstone and shale fragments from grit to pebble size set in cream carbonate matrix giving core a distinctive lace like appearance; upper contact very sharp, lower contact gradational; equivalent to similar wet bed sequence in B 19 where carb. matrix was extensively leached leaving soft, porous and friable skeletal conglomerate; core in this hole is however extremely competent; some 10-30 CA jointing but most breaks are driller breaks; only one 20 cm. length at 576.3m. leached; BCA 60; pyrite 0.5 % throughout mainly in calcareous matrix as dissem. grains and streaks rimming clasts; also occassionally dissem. in pebbles;	575.1	587.3	100	577	583.3 589.7	57 75								
587.3	598.0	**SANDSTONES - GRITS- CONGLOMERATES:** dark gray massive grits, sandstones and conglomerate with white rounded qtz pebbles and angular shale and sandstone fragments	587.3	598	100	589.7	595.8 602	69 53								

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To						
448.0	496.7	....cont.... BCA consistent 60-65: cream colored carb. and qtz-carb veins, common to 470 m. and ranging from microveins to 10 mm. brecciated veins at 20-30 CA; sulfides confined to rare grains dissem pyrite, usually in more calcareous beds; core quite broken, both along several calcite filled joint directions and on bedding parallel fractures in thin shaley units;														
496.7	538.2	**CALCAREOUS SILTSTONES and LIMESTONES:** dark gray medium grained calcareous siltstones interbedded with light gray medium grained limestones; BCA consistent 65 - 70; only very minor thin calcite veining, no qtz veining; rare specs pyrite, mainly in limestones; core extremely competent, most breaks either driller breaks or occassional greasy bedding parallelbreaks in thin (<10mm) shaley beds;	496.7	538.2	100	495	501.3	68								
							507.8	77								
							514.5	82								
							520.6	56								
							533.5	93								
							539.9	76								
538.2	575.1	**SILTSTONES, MINOR LIMESTONES and CONGLOMERATES:** dark gray siltstones, generally calcareous but calcareous component decreasing down hole; occassional 10-20 cm. light gray medium grained limestone bed; first conglomerate 548.3-550.3m: quartz and black shale fragments set in gray calcareous matrix; speckled nature of siltstones due to lighter gray grains carbonate set in darker siliceous groundmass; 10 cm crinoidal (?) limestone bed 553.8 m. with 1-2 % pyrite; BCA consistent 60-65; occassional 5-10 mm. cream-white carb. veins coarsely crystalline; below 564 m. siltstones cut by network of fine	538.2	575.1	100	539.9	552.6	61								
							558.3	75								
							564.5	29								
							570.7	42								
							577	19								

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Description			Core Recovery			RQD			Assays							
From	To		From	To	%	From	To	%	From	To						
587.3	598.0	...cont.... set in a dark siliceous groundmass with only very minor carb component; BCA 65; occassional 1-10 mm. qtz and qtz-carb veins; common greasy stylolitic structures containing abundant pyrite (eg) 594.0m; pyrite 0.5 % dissem in groundmass as euhedral clusters and discrete grains and occassionally as fine dissem in pebbles; core generally competent with low angled joint set 20-30 CA; some fracturing along stylolitic structures which are increasing in abundance with depth;														
598.0	617.3	**GRITS-SANDSTONES-CONGLOMERATES and CALCAREOUS SILTSTONE:** similar to unit above but with several 10-50 cm. units of light gray calcareous siltstone; 602.9 m.: 20 mm. breccia zone parallel bedding; stylolitic fracturing common, coated with greasy hematitic (?) material;	598	617.3	100	602	614.4 620.8	60 31								
617.3	622.0	**BROKEN and VEINED CALCAREOUS SILTSTONE and MINOR CONGLOMERATE:** similar to unit above but very broken, calcareous, and more veined and pyritic; (original core blocks were 0.5m. out, indicating core loss; however this was a marking error and there was no loss); medium gray siltstones generally calcareous; occassional narrow qtz pebble conglomerate beds; abundant carb - minor qtz. veins, ranging from microveins (<1mm) to 20mm. veins; 617.3: 20mm calcite breccia vein 35 CA with minor pyrite; 618.9: 50mm qtz-carb vein with large blebs pyrite-chalco (2-3 % sulfides); 621.6: 10mm black pug zone with 0.5 % coarse euhedral pyrite; 621.8: 10mm black pyritic pug zone;	617.3	622	100	620.8	626.4	29								

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Description			Core Recovery			RQD			Assays								
From	To		From	To	%	From	To	%	From	To							
622.0	624.2	**QUARTZ CARBONATE FAULT ZONE:** **(Tasmania Reef):** 622.0-622.3: milky white quartz vein, minor cream carbonate; HW contact 35-40 CA; qtz very fractured, minor fine grained pyrite, (arsenopy.?) especially on fracture surfaces; 622.3-623.6 m.:quartz-carbonate-pyrite vein; cream colored carb and white qtz; 1-2 % pyrite as dissemination and large blebs and veinlets; core very broken; 623.6-624.2 m.: quartz vein; sharp 40 degree contact with qtz-carb. vein above; sharp 40 degree contact with unit below (FW); minor cream carbonate; 0.5-1 % pyrite as blebs and euhedral disseminations; core cut by thin qtz-carb veinlets but reasonably competent;	622	624.2	100				core from the reef intersection in B 20 was not assayed; a wedged hole B 20(A) was completed adjacent to B 20 and whole core from this reef intersection was assayed; therefore see log of B 20(A).								
624.2	625.7	**VEINED SILTSTONE and CONGLOMERATE:** *light-dark gray siltstone and qtz pebble* conglomerate cut by network <1mm. carb veins and 2-3 mm. qtz-carb veins; occassional thin (<5mm) soft shaley beds; minor dissem pyrite throughout and more concentrated on greasy (?hematitic) joints and stylolitic fractures;	624.2	625.7	100												
625.7	626.1	**QUARTZ-CARBONATE-PYRITE-CHALCOPYRITE VEIN:** sharp 40 degree HW and FW contacts; coarse grained white qtz-cream carb vein with some brecciation of carb; 2-3 % pyrite and 0.2-0.5 % chalco, both as blebs and thin veinlets throughout; core competent;	625.7	626.1	100												
626.1	638.9	***SILTSTONE-GRIT-CONGLOMERATE:*** light gray siltstone, minor calcareous component; dark gray grits and qtz pebble conglomerates; irregular patches of calcareous siltstone give core a mottled appearance in places; BCA 70:	626.1	638.9	100	626.4	632.5 638.9	57 45									

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Description			Core Recovery			RQD			Assays							
From	*To*		From	To	%	From	To	%	From	To						
626.1	638.9	....cont.... occassional qtz-carb veinlets with associated *pyrite and minor chalco.;* 0.5-1 % pyrite throughout as coarse dissem grains and aggregates; numerous stylolitic fractures with greasy hematitic (?) surfaces; core competent with most breaks on stylolitic surfaces or parallel to bedding in thin, soft light brown mudstone beds;															
638.9	646.4	**VEINED and BRECCIATED SANDSTONES and CONGLOMERATES: (fault zone?)** Interbedded dark gray sandstone and qtz pebble conglomerate; abundant qtz and qtz-carb veins ranging from network micro (<1mm) veinlets to diffuse veins up to 50 mm.; 10 cm. breccia zone 644.1m, and 646.2 m.(small faults?); 645.2-646.2 m: light brown *micaceous* siltstone with phyllitic texture and soft sediment slumping, with BCA varying 0-60: numerous stylolitic fractures coated with hematite?; pyrite 1-2 % throughout as coarse disseminations, aggregates and veinlets, *especially in soft phyllitic beds and abundant* in stylolites;	638.9	646.4	100	638.9	644.7 650.8	53 36									
646.4	661.8	**SILTSTONES and CONGLOMERATES:** Interbedded dark gray siltstones and qtz pebble conglomerates; occassional thin light brown phyllitic mudstone bed; *siltstone speckled in places due to carb.* component set in dark gray groundmass; network qtz and qtz-carb veins continues but not as abundant as in unit above; BCA 60-65; 0.5-1 % coarse pyrite as dissem and aggregates; semi massive in stylolites; core competent, most fracturing along *stylolites* and parallel thin soft mudstone beds **END of HOLE**	646.4	661.8	100	650.8	656.9 661.8	43 53									