

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Log

Hole No. : B36

Date Started : 4 December 1996

Drilled by : Diamond Drilling (Tas.) P/L

Date Completed : 29 January 1997

Logged by : P.B. Hills

Collar

Northing : 5438594.14
Easting : 484635.26
R.L. : 2037.68
Dip : -78.72
Bearing : 282.85

Hole Details

Final Depth : 379.7
Hole Length : 379.7
Core Size : 0.0 55.6 PQ
55.6 379.7 HQ

Purpose

Geotechnical data gathering for the proposed main fresh air raise and second means of egress.

Summary Results

From	To	Length	Description	Au	Ag	Cu	Pb	Zn	As	S
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403080

BEACONSFIELD MINE JOINT VENTURE

Diamond Drill Core Geotechnical Log

Hole B36

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From	To	Description	Unit	Code	Depth (m)	λ	α	β	L (m)	Roughness		Wall	Gap (mm)	Fill	H ₂ O	Sets
										(P)	(S)					
0.0	2.0	Open Hole	OPN	nil	76.80		50	60		U	R					
					77.00		40	350	0.20	P	S					
		First run 30cm. Picked up cave from the installation of a collar pipe. Grey cly with occasional quartz pebbles to 6mm diameter.			77.50		35	340	0.50	U	R					
					77.75		25	300	0.25	P	S					
					77.80		55	20	0.05	P	R					
2.0	6.4	Light brownish grey clay and moderately weathered shaley siltstone. Bedding fabric partially preserved at 58 - 60 CA.	OGB	cly	77.90		55	10	0.10	S	S					
					78.00		65	50	0.10	U	R					
					78.10		35	60	0.10	P	R					
		Drillers report that core from 6.4m fell out of inner tube and was picked up later.			78.15		30	60	0.05	P	R					
					78.40		80	330	0.25	U	R					
					78.70		25	280	0.30	P	S					
604.0	44.6	Medium to dark grey low strength graphitic shale. Considerable clay patches occur throughout the unit but the original rock fabric is well preserved and generally fresh. Occasional pyrite blebs and grains occur throughout the unit. The texture is sheared parallel to bedding with some faces verging on polished.	OGB	sha	79.30		35	0	0.60	P	P					
					79.35		60	30	0.05	U	S					
					80.10		55	40	0.75	U	S					
					80.55		50	60	0.45	P	R					
					81.35		65	0	0.80	P	S					
					81.55		30	280	0.20	U	S		10	PyClHm		
					81.75		40	230	0.20	P	S					
44.6	53.3	Reddish brown partially weathered limestone indicating the passage of water beneath the generally impermeable Grubb Shale.	OFG	wls	81.90		45	20	0.15	P	R					
					82.10		80	80	0.20	P	S					
					82.35		45	50	0.25	S	R					
					82.50		60	0	0.15	P	S					
		PQ : HQ at 55.6m.			82.70		55	350	0.20	P	R					
53.3	55.9	Light grey stylonitic limestone containing occasional carbonate and quartz carbonate stringers and veinlets throughout.	OFG	lim	122.60		55	350		U	S					
					122.90		0	0	0.30	I	R					
					123.50		70	260	0.60	P	R					
55.9	57.8	Limestone as above extensively veined and brecciated with carbonate. Common pyrite disseminated throughout or in fine stringers with quartz. Minor clay pug bands throughout.	DSR	min	124.30		35	0	0.80	P	R					
					124.35		25	90	0.05	P	R					
					124.70		80	110	0.35	U	R					
					125.10		70	250	0.40	P	STR					

403082

From	To	Description	Unit	Code	Depth (m)	λ	α	β	L (m)	Roughness		Wall	Gap (mm)	Fill	H ₂ O	Sets			
										(P)	(S)								
57.8	65.0	Light grey stylolitic limestone as previously with common quartz carbonate veinlets and stringers throughout. A clay seam occurs from 61.8 - 61.9. A carbonaceous coating is developed on stylolites throughout.	OFG	lim	125.10			45	30	0.00	P	S							
					125.60			35	180	0.50	U	S							
					125.80			60	160	0.20	P	R							
					126.00			45	100	0.20	P	R							
					126.05			35	110	0.05	U	R							
65.0	69.9	Limestone as above overprinted by an altered carbonaceous clay horizon.	DSR	min	126.60			55	340	0.55	I	R							
					127.70			35	10	1.10	P	R							
					128.00			20	260	0.30	P	S							
69.9	79.9	Light grey stylolitic limestone as previously.	OFG	lim	153.70			55	200		U	S							
79.9	83.6	Altered and brecciated limestone with considerable quartz carbonate +/- pyrite veining. Common specular haematite on joint surfaces with up to 1cm pug.	DSR	min	153.75			45	180	0.05	P	S							
					154.20			40	180	0.45	P	S							
					154.35			35	190	0.15	P	S							
					154.50			35	180	0.15	P	S							
83.6	189.9	Light grey stylolitic limestone as previously. A clay zone occurs from 83.65 - 83.80 then the unit is predominantly pure limestone at 35 CA. A carbonate (quartz) (+/- pyrite) crackle breccia occurs from 88.5 - 94.8m but the unit has considerably less pyrite throughout. 110.5 - 110.8m further quartz carbonate crackle breccia. 112.0 - 112.05m clay pug zone. Thereafter common quartz ankerite sulphide veins to 8cm (true) at a high angle to bedding occur to 117.8m. Occasional disseminated pyrite and minor pyrite with quartz carbonate occurs around 128.0m. 134.0 - 134.1m a graphitic clay pyrite breccia occurs. A similar feature occurs 134.4 - 134.45m. Common pyrite grains from 140.0m lead to common quartz carbonate pyrite veining. Very common disseminated pyrite occurs from 149.7 - 156.0m.	OFG	lim	154.70			40	210	0.20	P	R							
					156.20			45	190	1.50	P	S							
					156.50			45	180	0.30	P	R							
					156.65			45	20	0.15	P	S							
					156.70			20	290	0.05	P	S							
					156.75			40	230	0.05	P	S							
					170.75						10	220		U	R				
					171.35			45	90	0.60	P	S							
					172.00			45	100	0.65	P	S							
					172.35			45	100	0.35	P	S							
					172.60			45	100	0.25	P	S							
					172.70			55	0	0.10	U	S							
					173.15			45	90	0.45	P	S							
		0.6m Core Loss from 184.0m.			173.80			45	150	0.65	P	S							
					174.10			45	0	0.30	P	S							
189.9	253.3	Light grey stylolitic limestone and interbedded fine grained calcareous quartz siltstone containing occasional disseminated pyrite grains and quartz carbonate stringers. A 3cm quartz	OUT	lsl	174.70			60	140	0.60	P	R							
					175.70			45	110	1.00	P	S							
					175.80			20	170	0.10	U	S							

403083

From	To	Description	Unit	Code	Depth (m)	λ	α	β	L (m)	Roughness		Wall	Gap (mm)	Fill	H ₂ O	Sets
										(P)	(S)					
		carbonate pyrite vein breccia occurs from 194.9m. From			176.20		50	100	0.40	P	S					
		206.8 - 207.4 a broken clayey fossiliferous horizon occurs. It			176.70		50	110	0.50	P	S					
		incorporates sand to 207.0m, is generally very friable and easily			177.25		40	150	0.55	I	R					
		washes away. The horizon is non-calcareous although the			177.50		45	80	0.25	P	S					
		alteration appears stylolitic. Euhedral pyrite grains occur in a			177.65		45	90	0.15	P	R					
		carbonate quartz vein at 220.5m. Extensive quartz ankerite			177.75		50	100	0.10	P	R					
		sulphide veining and alteration occurs from 246.1 - 246.2m,			178.50		60	280	0.75	P	S					
		248.2 - 248.5m, 248.9 - 249.0m and 249.6 - 250.3m with			178.70		45	70	0.20	P	S					
		common carbonate alteration and disseminated pyrite from			179.30		45	80	0.60	P	S					
		246.0m.			179.35		25	220	0.05	P	S					
					179.70		50	80	0.35	P	S					
253.3	285.8	Greenish grey and red calcareous quartz siltstone and minor	OUT	csi	180.00		40	0	0.30	P	S					
		interbedded stylolitic limestone with occasional shaley partings.			180.10		50	330	0.10	P	S					
		The unit is well bedded in patches at 45 CA but elsewhere			180.40		45	80	0.30	P	S					
		common cross bedding, algal structures, carbonate flecks and			180.70		40	80	0.30	P	S		2	Clay		
		fossiliferous horizons occur. Occasional red and green bands			180.75		45	60	0.05	P	R					
		suggest redox fronts in alteration within limestone and fossil			181.00		35	80	0.25	P	S					
		rich patches of siltstone. The unit is quite calcareous throughout			181.20		35	50	0.20	P	S		1	Clay		
		Occasional quartz carbonate +/- pyrite veinlets and stringers			181.35		45	50	0.15	P	R					
		occur throughout. Generally fair to good ground with smooth			181.40		35	200	0.05	I	R					
		planar fracture faces. 2cm clay at 279.2m.			181.70		45	80	0.30	P	S					
					181.80		40	60	0.10	U	R					
285.8	379.7	Light brownish grey medium grained quartz siltstone with	OUT	sii	182.00		45	40	0.20	P	S					
		occasional interbeds of stylolitic white limestone. Generally well			182.50		45	50	0.50	P	S					
		bedded at 45 CA but occasional horizons of current bedding and			182.55		45	50	0.05	P	S					
		bioturbation occur. Limestone horizons are generally			183.10		50	50	0.55	P	STEP					
		fossiliferous and probably represent algal mats. Occasional			183.30		40	60	0.20	P	S					
		quartz carbonate +/- pyrite veinlets and stringers occur			183.40		50	50	0.10	P	S					
		throughout the unit. A large quartz ankerite pyrite sulphide vein			183.42		40	60	0.02	P	S					
		occurs from 313.2 - 313.3m. Occasional shaley partings to 5mm			183.45		45	60	0.03	P	S		1	Clay		
		containing sulphidic clay are present. Rare disseminated pyrite			183.50		25	180	0.05	P	R					
		occurs throughout. Ground is generally poor to fair with			183.65		45	60	0.15	P	S					
		fracture faces generally smooth planar on bedding or occasional			183.70		25	180	0.05	P	R					

403084

From	To	Description	Unit	Code	Depth (m)	λ	α	β	L (m)	Roughness		Wall	Gap (mm)	Fill	H ₂ O	Sets
										(P)	(S)					
		veinlets			183.95		40	50	0.25	P	STEP					
					184.00		40	50	0.05	P	S					
		E.O.H. at 379.7m.														
					190.70		50	100		P	R					
					190.90		40	120	0.20	P	R					
					191.15		40	110	0.25	P	S					
					191.65		45	130	0.50	P	R					
					192.00		40	110	0.35	P	S					
					192.40		65	330	0.40	P	R					
					192.90		15	260	0.50	P	STEP					
					193.00		50	50	0.10	P	R					
					193.05		45	90	0.05	P	S					
					193.10		25	240	0.05	P	S					
					193.15		40	90	0.05	P	R					
					193.30		20	230	0.15	P	S					
					193.30		45	90	0.00	P	R					
					193.50		45	80	0.20	P	S					
					193.70		40	330	0.20	P	STEP					
					194.00		45	100	0.30	P	S					
					194.20		45	90	0.20	U	S					
					194.50		50	100	0.30	U	S					
					194.80		40	90	0.30	P	S					
					194.70		40	90	-0.10	P	S					
					194.80		50	90	0.10	P	S					
					194.90		45	80	0.10	P	S		4	Clay		
					194.95		45	80	0.05	P	S					
					195.10		45	160	0.15	P	S					
					195.30		60	230	0.20	P	S					
					195.40		45	90	0.10	P	S		Film	Pyrite		
					195.45		30	310	0.05	U	S					
					195.55		65	280	0.10	P	S					
					195.60		45	85	0.05	P	S					
					195.80		40	80	0.20	P	R					

403085

From	To	Description	Unit	Code	Depth (m)	λ	α	β	L (m)	Roughness		Wall	Gap (mm)	Fill	H ₂ O	Sets
										(P)	(S)					
					196.15		45	50	0.35	P	S					
					196.35		35	100	0.20	P	R					
					196.60		50	120	0.25	P	R					
					196.80		50	90	0.20	P	S					
					196.90		45	90	0.10	P	S					
					197.05		55	320	0.15	P	S					
					197.30		50	320	0.25	P	S					
					197.65		45	90	0.35	P	S		3	Clay		
					198.00		45	90	0.35	U	S					
					198.10		45	90	0.10	P	S					
					198.35		40	30	0.25	P	S					
					198.40		40	280	0.05	P	S					
					198.80		50	90	0.40	P	S					
					199.20		40	330	0.40	P	S					
					199.50		45	100	0.30	P	S					
					199.55		45	100	0.05	P	S					
					199.60		45	100	0.05	P	S					
					255.20		50	320		P	S					
					255.30		50	320	0.10	P	S					
					255.35		30	130	0.05	P	STEP					
					255.45		50	320	0.10	P	S					
					255.60		50	320	0.15	P	S					
					255.70		50	320	0.10	P	S					
					255.80		50	320	0.10	P	S					
					255.95		50	320	0.15	U	S					
					256.00		50	320	0.05	P	S					
					256.20		40	320	0.20	P	S					
					256.30		45	320	0.10	P	S					
					256.50		45	320	0.20	P	S					
					256.65		50	320	0.15	U	S					

403086

From	To	Description	Unit	Code	Depth	λ	α	β	L	Roughness		Wall	Gap	Fill	H ₂ O	Sets
					(m)					(P)	(S)					
					336.70		45	320		P	R					
					336.85		50	320	0.15	U	S					
					337.00		60	260	0.15	P	S					
					337.05		30	320	0.05	P	S					
					337.10		30	320	0.05	U	S					
					337.20		45	330	0.10	P	S					
					337.25		45	320	0.05	P	S					
					337.30		45	330	0.05	P	S					
					337.35		45	330	0.05	P	S					
					337.50		45	320	0.15	P	S					
					337.65		50	160	0.15	P	S					
					337.80		45	330	0.15	P	S					
					337.85		45	330	0.05	P	S					
					338.05		45	320	0.20	P	S					
					338.10		45	320	0.05	P	S					
					338.25		45	320	0.15	P	S					
					338.40		40	330	0.15	U	S					
					338.50		40	190	0.10	P	S					
					338.60		45	340	0.10	P	S					
					338.65		45	330	0.05	P	S					
					338.90		50	190	0.25	P	STEP					
					339.00		45	320	0.10	P	S					
					339.15		50	180	0.15	P	S					
					339.20		50	330	0.05	P	S					
					340.00		90	340	0.80	P	S					

403037