

Logged By: Allan M. Frew
Hole No. LA97-4 Sheet No. 1 of 7

FIRST LABRADOR RESOURCES LTD.
DIAMOND DRILL RECORD

Name of Property: <u>Lake Bond</u>	Meterage	Dip	Azimuth	Meterage	Dip	Azimuth
Hole No. <u>LA97-4</u> Length <u>320 m.</u>						
Location <u>North of Lake Bond, Noranda's Grid</u>						
Latitude <u>6400N</u> Departure <u>5250E</u>						
Elevation _____ Azimuth Vertical Dip <u>-90°</u>						
Started <u>October 19, 1997</u> Finished <u>October 25, 1997</u>						
<i>CORE SIZE BTW</i>						

Meterage		Description	Remarks
From	To		
0	3.1	CASING	
3.1	8.4	PORPHYRITIC ANDESITE: Medium grey-green colour, fine-grained matrix with 8% feldspar phenocrysts 1-2 mm. long. Lower contact at 47° to C.A. Very slightly-magnetic.	
8.4	27.1	BASALT: Dark grey to black, very fine grained to aphanitic, essentially equigranular, although feldspar phenocrysts 1-3 mm. long are seen in some sections. Chloritic alteration obliterates then elsewhere. Core broken after 9.7 m. 9.8 – 10.2m: core badly broken. 80% core loss. 11.2 – 12.3m: core badly broken – 60% core loss 13.3 – 14.5m: core badly broken – 40% core loss zones of broken core show slippery, lineated surfaces; indicating this is a fault zone. 1% quartz-carbonate stringers at random angles to core axis. Moderately magnetic. Thin (10 cm.) dykes at 22.8 m., 24.0 m., 24.4 m. (see below for description)	
27.1	29.3	INTERMEDIATE DYKE: Medium grey colored, very fine grained to aphanitic, with whitish feldspar phenocrysts to 2 mm. forming 5% of rock, upper contact ground. Lower contact at 35° to core axis Similar to short dykes noted in unit above, but those dykes have a slight purplish color cast, and have a thin (4-5 mm.) chilled margin, but this dyke is not chilled against unit below. This may be the chilled margin for the unit below, but if so, the chilled zone stops abruptly, rather than grading out. 28.5 – 29.0 m: Inclusion of basalt, as 8.4 – 27.1. Upper contact ground, lower is irregular at about 30° to core axis. Dyke is chilled against basalt – slightly magnetic.	

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Meterage		Description	Remarks
From	To		
29.3	110.0	DIORITE: Medium grey-green color, medium grained, massive. Upper contact welded. Dyke above may be from the same magma as this unit, and may be the chilled margin of this unit. A few very fine grains of pyrite throughout - slightly magnetic. 47.7 - 49.5: Inclusion of basalt (as 8.4 - 27.1). Diorite is chilled for 35 cm. on both contacts of basalt inclusion. Upper contact ground, lower contact broken, but possible at 65° to 70° to core axis. Epidote mineralization starts at about 59.4 m., but initially is present only as trace amounts along fracture planes. After about 65 m., it is also present in the rock, and gives a slightly lighter color to it. Chilling is noticeable from 109.4 m. - lower contact at about 50° to core axis.	
110	175.3	BASALT: Dark green to black color, medium grained, essentially equigranular, massive, but core breaks preferentially at about 55° to core axis. A few (<1%) quartz-carbonate stringers throughout, at varying angles to the core axis, but there seems to be a preferred angle of 55°, and another at small angles to the core axis. Some epidote mineralization along fractures, and a very small amount in the rock - moderately magnetic. After about 132.6 m., the rock takes on a mottled appearance due to clumping of feldspar grains together. It is not clear if the feldspars thus clumped are fragments of a formerly larger grains split by alteration or fractured by movement, or if small grains have been brought together. There is no sharp contact visible, but this could be a separate flow from the one above - short sections of broken core throughout; short runs reported by drillers. After 142.6 m. the foliation and fracture planes are talcose and slippery, and many sections or broken, talcose core are seen, especially: 144.2 - 144.6 m.; 145.7 - 146.2 m.; 146.8 - 146.9 m., 148.4 - 148.7 m.; 149.8 - 150.6 m.; 151.8 - 152.2 m. - the fractures include one set at about 55° to core the axis, and others at different angles. Some anastomosing fractures seen, and others suspected in zones of badly broken core. 143.0 - 150.6 m.: core loss about 20%. No significant pyrite seen. A few small (<1 mm.) specks on fracture and alteration planes. Badly broken core 154.6 - 155.5 m., 162.1 - 16.4 m., and moderately broken between these. After about 152 m., the "clumps" of small feldspar grains look fore like single crystals broken up. After 166 m., the "clumps" become scarce, and most, but not all, of the rest of the unit shows only small feldspar clumps. This might be a different unit, but the possible contact is badly broken. 172.7 - 173.0 m.: Very fine grained to aphanitic section. Looks like a chilled zone. No contacts recovered. Rocks on either side are as previously described. This may be a small dyke. There is no evidence that it is out of place in the core box, but can't confirm that it is in place, either.	

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Meterage		Description	Remarks
From	To		
175.3	177.6	SHEAR ZONE: Medium greenish to darker green color; chlorite-sericite alteration. - strongly sheared at beginning of section, becoming less sheared after 175.8 m. - shearing averages 45° to core axis, but varies 7° either side of that - sheared rock, likely belongs to unit below. - slightly magnetic.	
177.6	182.3	DIORITE (or massive flow?): Medium green color, medium grained equigranular. 3% quartz-carbonate stringers at completely random angles to core axis. Slightly magnetic.	
182.3	182.6	ANDESITE: Medium grey to greenish grey color, fine grained in most of unit, but some sections approach medium granularity. Upper contact sharp at 45° to core axis, lower broken, but at about 67°. A few % quartz-carbonate mineralization throughout.	
182.6	184.1	MAFIC DYKE: Black colored, very fine grained to aphanitic; core at lower contact completely broken up. Moderately magnetic.	
184.1	195.1	ANDESITE: as 182.3 – 182.6; medium grey to greenish grey color.; mostly fine grained, but some sections are medium grained. Massive, but core breaks preferentially at 60° to core axis. Contains a few % quartz-carbonate stringers at random angles to core axis. At 188 m. – first significant pyrite mineralization seen. After 149.5 m., rock becomes finer grained to contact.	
195.1	203.9	MAFIC DYKE: Black colored, very fine grained, massive. Upper contact slightly chilled; Some pyrite near contact. Both contacts gradational and welded. Can't pick specific contact plane, or measure its core angle. Moderately magnetic.	

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Meterage		Description	Remarks
From	To		
203.9	216.5	PORPHYRITIC ANDESITE: Medium grey-green color, medium grained matrix, with variable amounts of whitish, anhedral feldspar phenocrysts (2-4%). Mafic minerals, chloritized, feldspars somewhat saussuritized. First 30 cm. moderately silicified. Slightly magnetic; seems to be less magnetic in sections with higher pyrite content. Some pyrite throughout, as irregular blebs and aggregates of grains. Narrow (1 cm.) zone of FAULT GOUGE at 209.8 m., at 37° to core axis. 209.8 – 211.8 m.: significant epidote mineralization in this section. This section also includes darker colored sections of more intense chloritization. 30% of this section is moderately chloritized, and contains 3% pyrite compared with <1% to 1% for rest of unit. Chalcopyrite at 211 m.	SAMPLED: 210.8 – 211.8
216.5	229.1	BASALT: Black to dark green to medium dark grey colored. The grey sections may represent fragments of andesite incorporated into the basalt flow. Some have sharp boundaries, and some don't. Fine grained, essentially equigranular. Moderately to strongly chloritized; weakly to moderately epidotized. Irregular quartz-carbonate stringers form 3% of rock. Mineralized with pyrite throughout – average 5%, but varies from 2-8% over 30 cm. lengths. Core at the upper contact broken; contact possible at 70° to core axis. Lower contact badly broken.	SAMPLED: 216.5 – 229.1
229.1	232.3	INTERMEDIATE DYKE: Medium grey colored, fine grained massive equigranular to slightly porphyritic. Chilled on both contacts, and both are ground and badly broken up, mostly on the basalt side. Moderately to weakly magnetic.	
232.3	237.1	BASALT: As 216.5 – 229.1, but moderately magnetic (more so than INT. DYKE, above). Some of the magnetism is due to pyrrhotite. Average sulfide content (pyrite plus pyrrhotite) is 8%, as disseminated grains, blebs, and along fracture planes.	SAMPLED: 232.3 – 237.1 NOTE: This unit is the same as 245.0 – 247.2 in LA97-6

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Meterage		Description	Remarks
From	To		
237.1	241.0	DIORITE: Medium grey to greenish color; medium grained internally, aphanitic where chilled on margins. Porphyritic. Upper contact chilled, and is darker color, ground and broken.	237.1 – 263.8 – possible sheared dykes or dykes intrusive into co-magmatic andesite.
241.0	241.6	INTERMEDIATE DYKE: Medium grey colored, aphanitic. Upper contact at 17° to core axis, lower at 40°.	
241.6	243.4	DIORITE: as 237.1 – 241.0 m.; likely part of same body.	
243.4	249.8	INTERMEDIATE DYKE: as 241.0 – 241.6 m.; upper contact at 12° to core axis, lower at 36°.	
249.8	250.5	DIORITE: as 237.1 – 241.0 m.; some black dyke material 1-2 cm. thick at the upper contact and in the middle of the unit, at 25° to core axis.	
250.8	254.6	INTERMEDIATE DYKE: Medium grey colored, medium grained porphyritic in centre (with 1% feldspar phenocrysts), aphanitic in both chilled margins. Upper contact at 52° to core axis, lower at 12°.	
254.6	260.0	DIORITE: As 237.1 – 241.0.	
260.0	263.8	INTERMEDIATE DYKE: Medium grey color, medium to fine grained massive, porphyritic. Feldspar phenocrysts anhedral to subhedral. Few pyrite grains. Moderately magnetic. Upper contact at 32° to core axis, lower at 42°. After 260.6 m., some epidote is seen on fracture surfaces and in the rock nearby.	
263.8	269.7	BASALT: Medium grey colored (andesitic?) at beginning of unit, darkening gradually to dark grey by 265.2 m. Medium to fine grained, sometimes with sharp contacts between zones of different granularity, indicating that the unit may be a flow breccia. Moderately magnetic. Almost no quartz-carbonate stringers. Contains a few grains of pyrite (<1%).	SAMPLED: 292.3 – 302.2

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Meterage		Description	Remarks
From	To		
269.7	305.2	BASALT: Dark green to black, somewhat mottled coloration. Medium to fine grained, but granularity somewhat obscured by alteration; mafics altered to chlorite, feldspar saussuritized. Significant pyrite mineralization - 4%. Only very minor quartz-carbonate stringer (<1%) at no preferred orientation. Pyrite in planar arrays, and as irregular blebs and aggregates of grains. Slightly magnetic; seems to be less magnetic in zones of higher sulfide content. Upper contact ground and broken. SILICIFIED ZONES: 278.9 - 280.0 m. 281.0 - 281.4 m. 281.8 - 282.7 m. 283.4 - 284.0 m. 288.7 - 289.9 m. 291.5 - 292.0 m. 293.0 - 295.8 m. 296.5 - 299.0 m. banding here 299.5 - 299.7 m. 300.4 - 302.2 m. 303.4 - 303.8 m. Silicification varies from 100%, producing light grey zones with only a few % pyrite, to a lower degree which lightens the color of the rock slightly, but does not otherwise change its appearance. Before 298.7 m. the silicified zones do not contain much pyrite, but after that, they do. 286.9 - 287.7 m; 10% rounded (~ 1 cm.) blebs of epidote alteration, which may represent fragments. Epidote decreases to about nil after this. At 292.3 m.: Pyrite content increases markedly, and there is a 20 cm. (true) thickness of it, cutting the core at 27° to the core axis. No other sulfides visible. PYRITE CONTENT: 293.0 - 293.4: 25% 293.4 - 294.4: 7% 294.4 - 295.4 6% 295.4 - 295.7 7% 295.7 - 296.7 4% 296.7 - 297.7 2% 297.7 - 298.7 1% 298.7 - 299.7 2% 299.7 - 300.0 7% 300.0 - 301.0 3% 301.0 - 301.8 6% 301.8 - 302.4 7%	SAMPLED: 292.3 - 302.2

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From	To		
305.2	306.0	MAFIC DYKE: Black colored, very fine grained to aphanitic, massive. Upper contact ground, lower contact at 31° to C.A. Moderately magnetic. Very little mineralization of any kind.	
306.0	309.6	PORPHYRITIC ANDESITE: Medium-dark grey to greenish grey color. Fine to very fine grained matrix, with euhedral to anhedral phenocrysts of feldspar, forming 4% of rock. Slightly magnetic. Lower contact at 63° to core axis.	
309.6	319.1	MAFIC DYKE: Black colored, very fine grained to aphanitic, massive to slightly porphyritic. Slightly chilled (noted in phenocrysts more than in matrix) margin. Moderately magnetic. A few quartz-carbonate stringers (<1%).	
319.1	320	PORPHYRITIC ANDESITE: as 306.0 – 309.6. Phenocrysts rather faint – due to alteration?	
	320	END OF HOLE	