

Logged By: Allan M. Frew
Hole No. LA97-3 Sheet No. 1 of 5

FIRST LABRADOR RESOURCES LTD.
DIAMOND DRILL RECORD

Name of Property: <u>Lake Bond</u>	Meterage	Dip	Azimuth	Meterage	Dip	Azimuth
Hole No. <u>LA97-3</u> Length <u>316.7 m.</u>	305 m.	-89°				
Location <u>North of Lake Bond, Ncranda's Grid</u>						
Latitude <u>6600N</u> Departure <u>5200E</u>						
Elevation _____ Azimuth <u>Vertical Dip -90°</u>						
Started <u>Oct. 13/97</u> Finished <u>Oct. 18/97</u>						
<i>CORE SIZE - BTW</i>						

Meterage		Description	Remarks
From	To		
0	6.1	CASING	
6.1	13.1	<u>ANDESITE PORPHYRY</u> : Fine-grained, dark grey groundmass with light greenish-grey feldspar phenocrysts. The phenocrysts (1 mm. x 2 mm. to 2 mm. x 4 mm.) are dominantly subhedral and anhedral, although there are some euhedral ones scattered throughout. The phenocrysts are fairly abundant and evenly distributed throughout. Non-magnetic, unmineralized, massive, brittle. The unit becomes non-porphyritic, aphanitic towards the contact (over 0.2 m.). The contact is obliterated due to blocky core.	
13.1	19.4	<u>DIORITE</u> : Medium grained, evenly textured, dark grey, slightly mottled appearance. Non-magnetic, unmineralized throughout. First 0.6 m. is fine-grained, chilled, and the last 0.4 m. is likewise. Out contact at 55° to core axis.	
19.4	20.3	<u>BASALT DYKE</u> : Fine-grained to aphanitic, dark greenish-grey, occasional phenocrysts and hairline stringers of white calcite. Out contact at 65° to core axis – sharp.	
20.3	25.8	<u>ANDESITE</u> : Dark greenish-grey to medium green, fine-grained, porphyritic over first 0.7 m. Subhedral white feldspar phenocrysts from sub mm. to 1.5 mm. across. Non-magnetic, massive, unmineralized, brittle. Last 0.6 m. is aphanitic with chilled contact at 25.8 m. at 50° to C.A. Over the last 0.9 m. there are narrow sections of brownish-red coloration due to emanations from the following unit. Contact is marked by narrow veins and nodules of white calcite.	

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Meterage		Description	Remarks
From	To		
25.8	41.1	<u>SYENITE</u> : Brick red-brown, medium to coarse grained, predominantly pink orthoclase, with lesser grey to white plagioclase (5%) black biotite (?) and hornblende make up about 10% - evenly distributed in 2-3 mm. crystals. Quartz is less than 2%, and has a porphyritic appearance in the core. Fine magnetite throughout, making the unit weakly magnetic. Out contact is obliterated by ground core.	
41.1	42.7	<u>BASALT</u> : Medium grained, dark green to dark greyish green, mottled looking due to dark green hornblende and pyroxene. Porphyritic - weakly - due to 1-2 mm. light grey feldspar phenocrysts. Non-magnetic, non-mineralized. Contact not distinct.	
42.7	43.6	<u>ANDESITE PORPHYRY</u> : Fine-grained, dark to medium grey groundmass with 1-2 mm. anhedral phenocrysts weakly distributed throughout. Contact blocky.	
43.6	51.7	<u>BASALT</u> : Medium grained, dark green to black, moderately to strongly magnetic. Irregular stringers and fracture fillings up to 2 mm. White calcite over first 1.5 m. and again 48.5 - 48.8 m. Very occasional small (1-3 mm.) blebs of pyrite throughout. At 48.8 there is 14 cm. of FAULT GOUGE. The unit is fairly massive throughout. Out contact at 50° to core axis.	
51.7	55.5	<u>DIORITE (DYKE ?)</u> : Fine to medium grained, dark greenish-grey to medium green, weakly to moderately magnetic. Occasional widely-spaced phenocrysts of white to light grey feldspar - euhedral and subhedral. Minor pyrite thinly disseminated throughout, as pinhead sized and up to 2 mm. irregular blebs. Both margins are chilled over 0.2 m. with progressive increase in grain size towards the centre - over 0.8 m. Equigranular, massive. Occasional 1 to 3 mm. veinlets of white calcite as fracture fillings at 15° to core axis. Out contact sharp at 50° to core axis.	
55.5	72.8	<u>BASALT</u> : Dark green to black, fine to medium grained porphyritic. Phenocrysts are subhedral to anhedral light green and dark grey feldspar up to 2.5 mm. across. Strongly chloritic throughout. Occasional fractures infilled with black chlorite as well. Locally schistose with chlorite and calcite coating foliation surface. Strongly magnetic. 57.3 - 57.9 m.; fine-grained to aphanitic brownish-green basaltic dyke, with both contacts at 50° to core axis. (continued on next page)	

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Meterage		Description	Remarks
From	To		
55.5	72.8 (cont'd)	64.0 – 64.2 m.: Brecciated. Fault at 90° to core axis. The dominant foliation is at 75° to core axis throughout; however, at 68.3 m., there are slickensides indicating a horizontal component of movement. 68.9 – 69.1 m.: Brecciated; out contact marked by shear at 30° to core axis. 72.8: Out contact obliterated.	
72.8	79.6	<u>DIORITE DYKES</u> : As 51.7 – 55.5. Out contact obliterated. Finer grained at both margins for 0.4 m.	
79.6	85.1	<u>BASALT</u> : As 55.5 – 72.8 m. Occasional fracture face coated with pyrite. 82.3 – 83.1: Fine-grained to aphanitic; porphyritic basaltic (?) dyke, similar to 57.3 – 57.9. In contact sharp at 67° to core axis. Out contact obliterated due to blocky and ground core. Out contact at 70° to core axis.	
85.1	86.8	<u>DIORITE DYKE</u> : As 51.7 – 55.5 m. In margin is chilled over 0.3 m., and finer grained over first 0.5 m. and last 0.3 m. Fewer phenocrysts and more andesitic. Out contact obliterated.	
86.8	123.7	<u>BASALT</u> : As 55.5 – 72.8 m., except less shearing and it has widely-spaced irregularly-shaped 2 mm. to 1 cm. stringers of calcite and chlorite infilling of fractures which run sub-parallel to core axis to 2° to 5° to core axis. Also occasional discontinuous 2 m. – 3 mm. stringers of pyrite. Blocky core 94.3 – 94.6 m.; 95.0 – 95.3 m.; 95.7 – 96.0 m.; 96.4 – 97.4 m. 99.3 – 101.5 m.: closely spaced fractures at 70° to core axis infilled with black chlorite; sub mm. to 1 mm. thick. 106.4 – 106.9: Blocky core. 113.9 – 116.0 m.: Numerous irregular fractures infilled with stringers of calcite and chlorite up to 4 mm. thick. Out contact sharp at 32° to core axis; last 0.3 m. is aphanitic, i.e. chilled.	
123.7	184.0	<u>DIORITE</u> : Dark grey, fine to medium grained equigranular, weakly magnetic. Much similar to 51.7 – 55.5 m., except more medium grained and uniformly textured. Massive, with widely spaced 3 mm. fracture infilling by chlorite (at 30° to 70° to core axis). Throughout there are pinhead specks and 1 mm. to 3 mm. irregular blebs of pyrite as disseminations – widely spaced. (continued on next page)	

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Meterage		Description	Remarks
From	To		
123.7	184.0 (cont'd)	At 167.5 m., epidote mineralization begins to be seen, and occurs every few metres. At 183.4 m., the grain size begins to decrease in a chilled margin. Lower contact at 50° to core axis.	
184.0	185.2	<u>PORPHYRITIC ANDESITE</u> : Medium grey green color, medium fine grained inequigranular. Euhedral to anhedral feldspar phenocrysts form 4% of rock.	<i>LOGGED BY R. NEWSON BEYOND 167.0 M.</i>
185.2	189.3	<u>DIORITE</u> : As 123.7 m. – 184.0 m., but slightly finer grained. Upper contact at 55° to core axis; chilled for 50 cm. Lower contact starts to chill at 187.5 m., and rock becomes aphanitic at 188.0 m. Lower contact at 25° to core axis.	
189.3	192.0	<u>PORPHYRITIC ANDESITE</u> : Medium grey color, medium to fine grained matrix with a few % anhedral to subhedral feldspar phenocrysts scattered throughout. Mafic minerals are chloritized, feldspars are saussuritized. Contains a few grains of pyrite, <<1% of rock. Probably from same magma as diorite. Weakly magnetic. Lower contact completed gradational – picked arbitrarily.	
192.0	291.5	<u>BASALT</u> : Dark grey green color. Medium fine grained, very slightly porphyritic. Upper contact gradational. Mafic minerals chloritized. Some light colored (epidotic, at least in part) alteration is present, beginning at 200 m., and increasing to 50% by 205 m. Alteration zones are variable in shape from rounded to completely irregular, and in size from 1 cm. to 15 cm. Some fractures show epidotic alteration in the walls; some epidotized zones also contain pyrite. Trace of pyrite at beginning of section, rising to 4% after 200 m., and varying from 2% to 10% over 30 cm. Pyrite is disseminated, and in stringers and irregular masses. Slightly magnetic; seems a bit more magnetic where pyrite content lower. Has the magnetite been sulfidized to pyrite? A very few narrow (1-3 mm.) quartz stringers throughout. The light colored alteration decreases to 30% after about 207 m. (continued on next page)	SAMPLED: 200-206

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FIRST LABRADOR RESOURCES LTD. DIAMOND DRILL RECORD

Meterage		Description	Remarks
From	To		
192.0	291.5 (cont'd)	At 226.3 m.: Broken core; 236.6 – 236.7 m.: Broken, chloritic core. Magnetism decreases after about 225 m. There are a few short sections of silicification, e.g. at 254 m. and 254.5 m., 261.2 – 262.2, 265.7 – 267.0, and 267.6 – 270.6, and continuing to the end of this unit. Pyrite content of the silicified zones is <1%. 267.6 – 268.0 m.: May be chert fragments incorporated into volcanic rock. 271.3 – 275.1 m.: Some banding in this section at 60° to core axis. 274.7 – 281.3 m.: Fragmental volcanics? The alteration blebs in this section look as if they may be alterations of individual fragments. Before this, they don't. Pyrite content – 1-2% after 274.7 m. At 281.3, the number, size, and bulk percentage of the altered blebs decreases suddenly. A possible contact is obliterated by quartz and pyrite mineralization. 283.5 – 285.7 m.: Silicified zone.; 286.7 – 287.0 m.: Possible cherty zone. The "chert" layers are greenish buff in color, and are fractured and veined by stringers of grey quartz. Some pyrite at both contacts of this zone. Pyrite content increases after 287.0 m., to 8% by 291.5 m.	SAMPLED: 229 – 231 240.7 – 242.2 289.5 – 291.5
291.5	304.9	<u>ALTERED VOLCANICS</u>: Chlorite – sericite alteration. Foliation highly contorted. Medium greenish color. At 291.8: Some slightly broken, more chloritic core. Before this there are variable amounts of quartz stringers, whereas after this the stringers contain both quartz and calcite, and form 3% of the rock. Attitudes of the stringers show no preferred orientations. No visible pyrite mineralization. Some sections of darker chloritic alteration, especially 294.0 – 294.8, with sharp contacts at 50° to core axis.	
304.9	312.7	<u>SHEAR ZONE</u>: Same unit as above, but more sheared and altered. Shearing at about 45° to core axis. 305.2 – 305.4 m.: Fault gouge; 312.0 – 312.7 m.: Coarse fragmental. Light colored fragments up to 2 cm. in size.	
312.7	316.7	<u>BASALT</u>: Dark grey-green, very fine grained to aphanitic, equigranular. Upper contact ground. Foliation at 50° to core axis. A few stringers of quartz carbonate mineralization. No visible pyrite mineralization.	
	316.7	END OF HOLE	