

Logged By: Allan M. Frew
Hole No. LA97-1 Sheet No. 1 of 21

FIRST LABRADOR RESOURCES LTD.
DIAMOND DRILL RECORD

Name of Property: <u>Lake Bond</u>	Meterage	Dip	Azimuth	Meterage	Dip	Azimuth
Hole No. <u>LA97-1</u> Length <u>374.2 M.</u>						
Location <u>North of Lake Bond, Noranda's Grid</u>						
Latitude <u>6500N</u> Departure <u>5250E</u>						
Elevation _____ Azimuth _____ Dip <u>-90°</u>						
Started <u>September 27, 1997</u> Finished <u>October 4, 1997</u>						
Core Size <u>BTW</u>						

Meterage		Description	Remarks
From	To		
0	2.44	OVERBURDEN	
0	3.05	CASING	
2.44	5.40	<u>ANDESITE</u> : fine grained to aphanitic, medium green groundmass with occasional widely spaced, 1 – 3 mm. phenocryst of pinkish white feldspar which are subhedral to anhedral. Tight fractures throughout which have been filled with white carbonate and epidote, many of which have been leached and are now vuggy, cutting core at 10° and 20° to C.A. Wide spaced, irregular, discontinuous stringers of pyrite – up to 3 mm. wide. Unit is non-magnetic. Fracture at 4.90 m. is at 20° to C.A., unit is blocky over total length – insitu brecciation. Contact at 5.40 m. cuts at 40° to C.A.	
5.40	7.85	<u>BASALT</u> : Very fine grained to aphanitic groundmass, dark green to black, fairly massive, with abundant anhedral, 1 mm. phenocrysts. Wide spaced fractures at 35° and 40° to C.A. Weakly chloritic, moderately to strongly magnetic throughout. Contact sharp at 7.85 m. Cuts core at 40° to C.A.	At 7.15 m. there is a 5 mm. vein of greenish white calcitic quartz-carbonate cutting core at 45° to C.A.
7.85	11.37	<u>DIORITE</u> : Dark greenish grey – first 0.5 m. Very fine grained to aphanitic chilled contact then becoming medium grained, locally porphyritic with feldspar phenocrysts up to 6 mm. across. Widely spaced fractures cutting core at 50° to C.A., some of which have thin coating of smeared pyrite on fracture faces. Hairline fracture filled veins of white quartz carbonate at 10° to C.A. at 9.15 m. and 10.0 m. Weakly magnetic. Contact at 11.37 m. cuts core at 40° to C.A.	

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Meterage		Description	Remarks
From	To		
11.37	12.20	<u>BASALT</u> : Very fine grained to aphanitic, dark green, locally there are clusters of whitish to grey 2 mm. subhedral and anhedral phenocrysts of feldspar. Strongly magnetic. Over last 0.4 m. there are numerous 1 – 2 mm. blebs and crystals of disseminated pyrite. Contact at 12.20 m. is sharp at 60° to C.A.	
12.20	17.43	<u>DIORITE</u> : Dark grey to greenish grey, medium grained, fairly massive, locally porphyritic diorite; moderately to strongly magnetic. Contains finely disseminated, pinhead sized specks of pyrite throughout (<1%). Contact at 17.43 is very fine grained – chilled (?) over 2 cm., contact at 17.43 m. at 18° to C.A.	
17.43	18.15	<u>DIORITE</u> : Medium grained, mottled texture, medium greenish grey. Non-magnetic. Occasional widely spaced 2-4 mm. irregular bleb of pyrite. Contact at 18.15 m. cuts core at 33° to C.A.	
18.15	20.07	<u>BASALTIC ANDESITE</u> : Very fine grained to aphanitic, dark greenish grey to dark green, moderately to strongly magnetic. Occasional widely spaced, subhedral to anhedral 1-3 mm. phenocryst of white feldspar. Wide spaced fractures at 20° to C.A. Contact at 20.07 is sharp and at 60° to C.A.	
20.07	36.80	<u>DIORITE</u>: Mottled dark green and dark grey, medium to coarse grained diorite. Massive. Moderately to locally strongly magnetic. Occasional tiny speck of pyrite widely spaced throughout. Contact at 36.80 m. cuts core at 55° to C.A. Throughout section there are widely spaced, tight fractures cutting core at 15° and 20° to C.A. 32.73 – 33.20 Fine grained, dark green-grey, andesite dyke(?) weakly to moderately magnetic out contact at 45° to C.A. 33.20 – 33.98 Very fine grained to aphanitic, dark green to black basalt/diabase dyke. Moderately to strongly magnetic. Out contact at 10° to C.A. 36.60 2 cm. x 3 cm. rounded inclusion of wall rock. 36.50 – 36.80 becomes very fine grained to aphanitic – chilled contact. Contact at 36.80 is sharp at 25° to C.A.	

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Meterage		Description	Remarks
From	To		
36.80	49.30	BASALT: Very fine grained to aphanitic, dark green to black, massive basalt. Small phenocrysts of white to light grey feldspar (1-2 mm.) evenly distributed throughout giving porphyritic character. Strongly magnetic throughout. Chloritized. Narrow fracture filling and irregular stringers (up to 2 mm. across) throughout consisting of talcous mineral which is dominantly chlorite and calcite and some smeared pyrite. 40.93 – 41.80 Diorite dyke – similar to unit at 20.07 – 36.80. In contact at 30° to C.A., out contact at 50° to C.A. 41.80 – 42.70 Medium to coarse grained, strongly porphyritic. Fracture at shallow angle to C.A. $\approx$ 2° - 5°. Also at 50° to C.A. Slickensides on fracture surfaces. 44.75 Flow banding at 22° to C.A. 46.00 – 46.45 Irregular fragments (?) of dark grey to greenish grey, fine grained to aphanitic ground mass containing tiny (1 mm.) crystals of dark green to black mineral (hornblende?) – Andesite across 1/3 of core width – rounded boundaries. 48.80 – 49.30 Porphyritic with narrow dark green to black fine grained flow banding. 48.40 – 49.30 Narrow veins of white quartz carbonate (calcitic) cutting core at 45° to C.A. Contact at 49.30 at 50° to C.A. – sharp.	
49.30	57.75	DIORITE: Massive, even textured, fine grained to medium grained dark grey with greenish tinge diorite. Locally there are wide spaced 2-4 cm. phenocrysts of white feldspar – subhedral to anhedral. Weakly magnetic throughout. 53.00 – 54.90 Narrow (1-4 cm.) widely spaced veins of epidote at 20° to C.A. At 54.86 there is a 1 cm. wide band of epidote at 75° to C.A. 57.75 Out contact – sharp at 73° to C.A.	
57.75	62.51	BASALT: Fine grained to aphanitic, dark green to black basalt. Strongly magnetic. Chloritic. Irregular hairline stringers and fracture filling of calcite and chlorite (talcous) occasional smeared with thin patchy pyrite. 60.80 – 62.51 Very blocky. Out contact at 62.51 obliterated.	

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Meterage		Description	Remarks
From	To		
62.51	63.25	<u>DIORITE:</u> Fine grained to medium grained, dark grey to dark greenish grey. Anastomizing stringers of epidote. Weakly magnetic. Blocky. Contact at 63.25 sharp at 30° to C.A. 63.02 5.5 cm. vein of quartz-carbonate (calcitic) white cutting core at 18° to C.A.	
63.25	89.62	<u>ANDESITE:</u> Fine grained to medium grained locally, however predominantly fine grained, dark greenish grey andesite. Weakly porphyritic with 1 mm. to 2 mm. anhedral, white feldspar phenocrysts throughout. Massive. Locally displays flow breccia with irregular fragments up to 6 cm. across, particularly beyond 68.80 m. 68.85 Two sharply angular fragments of quartz diorite roughly 4 cm. x 3 cm. and 4 cm. x 5 cm. Weak magnetic character persists throughout the unit (although the unit has a general dioritic appearance it is considered to be an andesite). Occasional subhedral and anhedral mass of pyrite up to 4 mm. across, also lean, finely disseminated tiny blebs and discontinuous, short 1-2 mm. wide stringers. Wide spaced fractures throughout cutting core at 45°, 50° and 70° the faces of which have chlorite smears. Out contact at 89.62 m. is not discernable due to lost core over 0.10 m.	
89.62	91.60	<u>BASALT DYKE:</u> Dark green to black, highly magnetic basalt dyke. Chilled margins over first 0.5 m. and last 0.9 m. where the basalt is aphanitic the central portion being fine grained. Widely spaced fractures at 50° to C.A. exhibiting slickensides and chloritization. Out contact at 32° to C.A.	
91.60	95.77	<u>DIORITE DYKE:</u> Medium to coarse grained, dark grey mottled appearance, weakly to very weakly magnetic. Fractures over last 1 m. at 15° and 20° to C.A. filled with carbonate and chlorite – up to 1 cm. across. Out contact 35° to C.A.	

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Meterage		Description	Remarks
From	To		
95.77	100.25	BASALT: Fine grained, dark greyish green to locally black, strongly magnetic basalt. Chloritized – weakly to moderately. Wide spaced, narrow (1 mm. to 1 cm.) veins of calcite and chlorite filled fractures/shears which cut core at 20°, 45° and 50° to C.A., also as tight, irregular fracture fillings (1 mm.) caused by insitu brecciation. Contact at 100.25 m. cuts core at 38° to C.A. 97.60 – 100.25 Porphyritic with abundance of anhedral phenocrysts of dark green to black mineral (pyroxene) in dark green aphanitic matrix.	
100.25	102.18	DIORITE: Same as 91.60 – 95.77. Out contact at 45° to C.A.	
102.18	176.60	BASALT: Same as 95.77 – 100.25 m. except there is an increase in chloritization and magnetic character. 117.73 0.3 m. ground core Throughout the unit there are wide spaced fractures and shears, the faces of which are coated with chlorite (cutting core at 15°, 20°, 40°, 60° and 75°). Locally the unit appears to be brecciated insitu. 128.20 – 132.50 Porphyritic with anhedral phenocrysts of feldspar – medium grey – up to 3 mm. across but most from 1 mm. to 2 mm. across. This unit is fractured throughout with increase in intensity beyond 130.3 m. 131.20 – 132.40 Several shears cutting core at 10° to C.A. with subsidiary shears at 30° to C.A. These are infilled with 2 mm. to 4 mm. of chlorite and calcite. Shear surfaces display slickensides. Dark green to black, fine grained to aphanitic strongly magnetic fractured and sheared throughout with faces coated with chlorite. Total unit is moderately to strongly chloritic. Shallow angle shears cause core to be very blocky resulting in short drill-runs. Strongly to very strongly magnetic. Some maroon hematitic stain on shear faces. (continued on next page)	Throughout this unit there is the occasional shear face which is coated completely with smeared pyrite (1 mm. and less thick).

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Meterage		Description	Remarks
From	To		
102.18	176.60 (cont'd)	152.50 Beyond this point rock is intensely fractured – insitu brecciation – close spaced fractures – 1.5 cm. – 2 cm. spacing. 161.65 Beyond here rock is becoming more schistose. 164.10 – 165.30 Chloritic – basalt schist – very highly chloritic – extremely blocky, highly schistose minute sub mm. thick smears of pyrite on shear faces. 165.30 – 176.00 Sheared-brecciated chloritic basalt (some of the strong shears are at 50° diagonally across the core as well as being angled to the core axis). 165.30 – 170.50; Zones of intense schistosity with fault breccia and fine pulverized rock 172.00 – 172.90; at 172.00 – 172.94. Fault Gouge throughout these zones the rock is 174.25 – 175.15; very blocky with schistosity at 85° to core axis. 171.00 – 174.25 Numerous 1 – 4 mm. irregular and anastomizing stringers of calcite. 176.00 Out contact sharp at 64° to C.A.	
176.60	185.13	ANDESITE: Fine to medium grained, light green to creamy-green bleaching effect due to epidotization, silicification and carbonate alteration throughout an otherwise medium to dark green and medium grey andesite which has porphyritic zones of 1mm. to 2 mm. anhedral dark green phenocrysts (hornblende). Minor irregular hairline to 2 mm. stringers and fracture fillings of pyrite. Non-magnetic. Out contact cuts core at 30° to C.A. The unit consists of a series of flows which are porphyritic at the up-hole contact and grade into fine grained to aphanitic sections near the down hole contact (.10 - .14 m. wide). 177.40 Flow contact at 57° to C.A. 178.25 – 178.55 Three fragments of silicified, aphanitic, light grey to light greenish grey; 3 cm., 4 cm. and 9 cm. across. 178.73 – 179.63 Light grey, silicified, aphanitic dyke (?) similar to above fragments, cuts core at 50° to C.A. 182.4 – 182.90 Epidote rich mottled looking andesite – in contact 58° to C.A.	

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Meterage		Description	Remarks
From	To		
185.13	201.75	<u>ANDESITE</u>: Medium to dark green, fine grained to aphanitic, weakly to moderately chloritic, local silicification and epidotization. The epidote gives the rock a mottled appearance at 187.35 – 187.95. Irregular stringers and veins (1 mm. to 4 mm.) of pyrite widely spaced throughout. From 190.00 m. there is disseminated pyrite as 1 – 2 mm. specks, subhedral and anhedral crystals (up to 2%). Throughout there are pale green epidotized, silicified fragment from 3 cm. to 14 cm. across flow brecciation. Non-magnetic to very weakly magnetic. 186.15; 188.37; 190.14 ; Flow banding at 50° to C.A. 189.30 – 189.88 Basaltic dyke – porphyritic – light grey to greenish grey phenocrysts (1 mm. to 3 mm.) anhedral – in aphanitic dark green to black groundmass. In contact at 20° to C.A. Out contact at 60° to C.A. Moderately magnetic. Marked increase in epidote with depth, beyond 195.33 m. epidote constitutes 50 to 80% of the rock. 192.28 Calcitic quartz-carbonate vein cuts core at 30° to C.A. 193.05 – 194.35 Flow breccia 195.40 – 196.50 Flow breccia 196.80 – 197.30 Flow breccia 198.04 – 198.50 Flow breccia 199.25 – 199.80 Flow breccia 200.61 – 200.91 Flow breccia The unit has mottled appearance, from epidotization, at 199.00 – 199.50, and 199.77 – 200.42. Flow banding as follows: 192.75 at 60°, 193.30 at 38°, 194.73 at 60°, 197.71 at 66°, 199.82 at 48°, 201.02 at 68° and 201.52 at 43° (continued on next page)	

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Meterage		Description	Remarks
From	To		
185.13	201.75 (cont'd)	The pyrite content increases in depth and occurs as disseminations, distorted, narrow stringers, irregular blebs and fracture infilling – the stringers and fracture fillings are widely spaced and are generally 1 – 2 mm. wide except as noted: 193.72 m. = 5 mm., 194.55 m = 4 mm., 198.43 m. = 5 mm., 198.50 m. = 1 cm. The sulfide mineralization rarely exceed 2% by volume except at 198.30 – 198.70 where it is about 10%. Out contact at 201.75 cuts core at 48° to C.A.	SAMPLED: 198.3 – 198.7
201.75	205.25	BASALT: Fine grained to aphanitic, dark green to black, non-magnetic basalt. Widely spaced fractures in-filled with quartz-carbonate, and pyrite. These pyrite veins and stringers range from 1 mm. to 3 mm., whereas the greenish quartz carbonate fracture/shear filling is 1 mm. to 2 mm. At 202.70 m. a 1 cm. wide granular pyrite vein cuts core at 60° to C.A.; at 204.35 m. an 18 mm. wide fine grained pyrite vein cuts core at 50° to C.A. Throughout the unit, there is widely spaced 2 mm. to 7 mm. anhedral blebs of pyrite with clusters of probable vesicles infilled by pyrite at 201.80 m. and 204.45 m. ranging from 2 mm. to 4 mm. across. Flow banding as follows: 201.75 at 57° and 202.48 at 50°; 204.55 at 59°. 204.05: Irregular stringer of pyrrhotite swelling up to 5 mm. across. In the vicinity of the pyrite veins and stringers there has been localized epidotization over very short distances (2 mm. ±). 203.95 – 204.35: Intense silicification of country rock associated with white quartz-carbonate stringers which vary from 1 mm. to 1 cm. in width and cut core at 20° to C.A. 204.65: 2.5 cm. vein of coarse pyrite with clusters of 1 mm. disseminated specks and anhedral crystals as well as 2 mm. to 4 mm. blebs from 204.35 to 204.65 and disseminations, wispy stringers and 2.5 cm. distorted stringer/blebs from 204.65 to 205.25. 204.65 – 205.25: 5-10% pyrite mineralization as described above. 204.70 – 205.25: Similar to 203.95 to 204.35 with 10 cm. inclusion which has been completely silicified which is medium to dark grey with a cherty appearance. Out contact at 205.25 cuts core at 60° to C.A.	SAMPLED: 204.65 – 204.95

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Meterage		Description	Remarks
From	To		
205.25	208.50	SILICIFIED BASALT/ANDESITE: Light green, greenish grey, and cream colored fine grained to aphanitic intensely silicified basalt/andesite. White quartz-carbonate stringers and fracture infilling throughout – generally 2 mm. to 4 mm. wide except at 208.05 where a 2 cm. vein cuts core at 30° to C.A. Minor epidote 207.00 – 207.40. 205.40 – 206.30: Cream colored intensely silicified containing a few irregular fragments of dark green country rock up to 3 cm. across. 207.80 – 208.40: Same as above. In both sections the contacts are gradation into the green andesitic rock.	
208.50	209.90	ANDESITE: Aphanitic, light green, close-spaced fracturing (insitu brecciation). Fractures have been infilled with hair-line widths of pyrite which has caused wall rock alteration – i.e. epidotization. 209.23: 6 cm. wide zone of epidote alteration. Throughout the unit there is widely spaced disseminations of pinhead sized crystals and specks of pyrite.	
209.90	243.65	ALTERED ANDESITE: Intensely altered fine grained to aphanitic andesite. The whole unit has been extensively epidotized with epidote constituting up to 70% of the rock. Non-epidotized rock has been moderately to strongly chloritized. The unit has been silicified locally, contains narrow bands of amygdulites and fragmented as noted. Flow banding and/or flow contacts evident throughout the unit cuts core at an average of 50° to 55° to C.A. The narrow chilled contacts at the base of the flows and the amygdulites indicate that tops are down the hole. There are porphyritic sections throughout the unit which have 1 mm. to 3 mm. subhedral and anhedral phenocrysts which have been intensely epidotized, a small number of which have been partially replaced by pyrite. Widely spaced white quartz-carbonate (calcitic) veins occur throughout the unit as noted; as well there are narrow quartz veins and zones of silicification. The unit is non-magnetic. (continued on next page)	

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Meterage		Description	Remarks
From	To		
209.90	243.65 (cont'd)	Sulfide mineralization occurs as veins, irregular stringers, large blebs, and disseminations, the majority of which is secondary and associated with the hydrothermal fluids which caused the epidotization. Pyrite is the dominant sulfide mineral, however there are small blebs and stringers of chalcopyrite, pyrrhotite and to a lesser extent sphalerite. 210.15 – 210.65: Intensely silicified, aphanitic dyke with epidote alteration associated with pyrite which occurs as hair-line fracture filling and irregularly shaped blebs and stringers – up to 3 mm. across. In contact cuts core at 40° to C.A., out contact at 52° to C.A. 210.65 – 210.81: Breccia with 3 mm. to 2 cm. angular and sub-angular dark green to black chloritic fragments in a cream colored feldspar matrix, finely disseminated pyrite throughout. At 210.8 there is a 1 cm. to 2 cm. irregular discontinuous mass of coarse pyrite. 210.81: 7 cm. siliceous, aphanitic flow band at 75° to C.A. 211.50: Flow banding at 50° to C.A., followed by narrow band of amygdules from 4 mm. to 1 cm. across. 211.84: Flow banding at 68° to C.A. 212.00: Quartz-carbonate vein at 30° to C.A. 212.50 – 212.60: Band of .5 cm. amygdules 213.00: 1 cm. white quartz-carbonate vein irregularly running along side of core. 214.19: Flow banding at 65° to C.A. 214.70: Amygdules over 10 cm. up to 5 mm. across 215.20: 6 cm. wide siliceous inclusion- dark grey 215.32: 25 cm. zone of amygdules 215.80 – 216.70: Fragmental zone. 216.70: Flow contact at 55° to C.A. 216.70 – 218.40: Medium grained flow, 90% epidotized. 218.40: Short, narrow discontinuous stringers and tiny disseminations of sphalerite. 219.00: Irregular 1 mm. to 4 mm. stringers and disseminations of sphalerite (continued on next page)	

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Meterage		Description	Remarks
From	To		
209.90	243.65 (cont'd)	218.55 – 219.60: Fragmental zone 219.60: Band of .5 mm. to 1 cm. amygdules 220.30: Band of .3 mm. to 1 cm. amygdules 221.48: 2 cm. mass of coarse grained pyrite 222.75 – 243.65: <u>Fragmental zone</u>: Fragments are 80+% epidotized, some of them are cream colored – bleached; the fragments which are dominantly dark green to black chloritic, have mottled appearance due to epidotization of the feldspar phenos and groundmass. The matrix (?) is dark green to black, strongly chloritic, fine grained to aphanitic. This zone contains the best concentration of sulfide mineralization consisting of pyrite pyrrhotite, chalcopyrite and sphalerite occurring as large irregularly shaped masses, blebs, stringers and disseminations. The majority of the sulfide is secondary, however the finely disseminated pyrite is dominantly primary with lesser secondary replacement. 226.37 – 226.57: Quartz-carbonate (white) rich section containing 30 – 35% total sulfides comprised of large (up to 2.5 cm. x 3.5 cm.) blebs of pyrite with irregular shaped splashes of chalcopyrite (<1%). The remainder of this section is comprised of 50/50 epidotized and chloritized andesite. There are traces of sphalerite throughout the pyrite masses. 226.57 – 230.03: Core blocky; numerous shears at 20°, 25° and 30° to C.A. Some of which are infilled by white quartz and quartz-carbonate. At 227.40 narrow brecciated zone containing quartz carbonate matrix with associated blebs of pyrite – up to 1 cm. across. 236.46: Beyond here the rock becomes more massive and is 90-95% epidotized. 232.30 – 233.80: Numerous bands (?) of highly silicified, aphanitic, rock up to 10 cm. across. 233.55 – 235.00: Increase in sulfides – up to 10% comprised of irregular stringers – up to 2 cm. wide – blebs and disseminations. Minor pyrrhotite, chalcopyrite and sphalerite, with best concentration between 234.30 – 235.00. (continued on next page)	SAMPLED: 226.37 – 226.57 SAMPLED: 233.55 – 234.30 234.30 – 235.00

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Meterage		Description	Remarks
From	To		
209.90	243.65 (cont'd)	235.76 – 236.06: 50% cream quartz-carbonate stringers containing blebs and fracture (1 mm.) fillings of pyrite. Beyond 236.46 the unit is more massive and has marked decrease in sulfides – restricted to occasional widely spaced 4 cm. wide, discontinuous stringer, narrow – 1 mm. fracture filling and 2 mm. and pinhead sized disseminated specks and subhedral crystals. Out contact appears to be sharp at 60° to C.A. 239.88 – 240.38: Porphyritic – with mottled appearance.	
243.65	245.98	<u>ANDESITE (BASALT?)</u>: Very fine grained to fine grained dark grey, massive, with widely spaced 2 mm. euhedral and sub-hedral phenocrysts of cream colored phenocrysts. Scarce disseminated pinheads of pyrite throughout. 244.50: Fracture filled with 1 mm. – 2 mm. calcite and discontinuous stringer (2mm.) pyrite. The last 0.40 m. of this unit has irregular 2 mm. to 1.5 cm. replacement patches of epidote. Tight fracturing towards contact. Out contact at 55° to C.A.	
245.98	254.45	<u>BASALTIC ANDESITE</u>: Fine grained to locally aphanitic porphyritic with epidotized phenocrysts which are dominantly anhedral with occasional sub-hedral phenocrysts. Phenocrysts up to 3 mm. however majority around 2 mm. across. Groundmass is moderately to highly chloritized, giving dark green to black color, and is generally aphanitic. Moderately epidotized giving mottled appearance over the porphyritic sections which make up 70% of the unit. Quartz-carbonate, quartz and intensely silicified veins, irregular masses and stringers up to 10 cm. across widely spaced throughout unit. Numerous anastomosing stringers of quartz-carbonate which has been weakly to moderately epidotized giving pale green hue, also narrow veins, veinlets, and stringers of white quartz and quartz-carbonate. The unit is non-magnetic. (continued on next page)	

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Meterage		Description	Remarks
From	To		
245.98	254.45 (cont'd)	Throughout the unit there are lean concentrations of finely disseminated, hairline stringers, and small blebs of pyrite, many of which mark the contact with or occur as inclusions within quartz veins, knobs and stringers. 247.62: Flow contact at 50° to C.A. 249.70 – 254.45: Pronounced increase in sulfide mineralization – Pyrite with minor pyrrhotite, as irregular stringers up to 4 mm. across, blebs up to 2 x 3 cm. and clusters of coarse sub-hedral and anhedral crystals. Average about 5%. Out contact at 254.45 cuts core at 32° to C.A.	SAMPLED: 251.14 – 251.71 (5-8%) Sulfides 252.60 – 253.32 (10%) Sulfides
254.45	255.70	<u>BASALT DYKE</u>: Fine grained to aphanitic, weakly porphyritic with 1 mm. to 1.5 mm. phenocrysts, the majority of which are sub-hedral and anhedral, light to medium grey feldspar. Lean, finely disseminated pinhead sized specks of pyrite throughout. Weakly magnetic. In contact chilled across 1.5 cm., out contact cuts core at 85° to C.A. and is chilled across 3 mm.	
255.70	263.82	<u>BASALT</u>: Fine grained to aphanitic, dark green, pervasively chloritized from moderately to strongly. Where strongly chloritized the rock is black color. Widely spaced porphyritic sections up to 0.60 m. thick. Creamy pale green fragments – both angular and rounded – as well as veins and stringers of quartz carbonate which has been weakly to moderately epidotized. Numerous irregular anastomosing 3 – 4 mm. stringers of quartz-carbonate throughout. Locally there are quartz-carbonate veins up to 10 cm. wide which contain large masses of coarsely crystalline pyrite as well as small blebs and fracture infillings. The unit contains an average of 5% pyrite mineralization occurring as irregular stringers (up to 4 mm. across), blebs (up to 3 cm. across), veins (up to 1 cm. across) and disseminations. Everywhere there is quartz-carbonate there is associated pyrite occurring along the boundary, as inclusions scattered throughout or as irregularly cross-cutting stringers and veinlets. The unit is weakly schistose with schistosity cutting core at 47°. (continued on next page)	

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Meterage		Description	Remarks
From	To		
255.70	263.82 (cont'd)	256.93 – 257.53: Numerous creamy pale green quartz-carbonate fragments up to 4 cm. x 5.5 cm. with associated masses and blebs of pyrite and minor pyrrhotite – (10%). Also 3 mm. fracture infilling of white quartz carbonate. 258.63: 10 cm. quartz-carbonate vein cutting core at 15° to C.A. with 3 cm. pyrite at out contact. Also fracture infilling and small blebs. 259.15: 3 cm. quartz-carbonate vein cutting core at 32° to C.A. 259.65: 2.5 cm. quartz-carbonate vein cutting core at 30° to C.A. with 1 cm. fine grained massive pyrite in center. 259.95 – 260.15: 50% pyrite as 1 cm. vein at 30° to C.A. and 4.5 cm. mass associated with quartz-carbonate fragment. 260.78 – 261.58: Fine grained to aphanitic basalt dyke. Dark grey. Weakly porphyritic with tiny black (dark green) anhedral phenocrysts. Weakly magnetic. Has widely spaced hairline fracture filling of pyrite. In contact at 40° to C.A., Out contact at 45° to C.A. 261.58 – 263.82: Strongly chloritized, intensely schistose basalt. Dark green to black, occasional white to smokey grey quartz fragment and vein – up to 3 cm. across. 35-40% pyrite mineralization as anastomosing stringers, blebs and to a lesser extent as disseminations. Rock is very blocky. Non-magnetic. No visible chalcopyrite or sphalerite. The pyrite mineralization is most intense between 262.30 and 263.82. Out contact is obliterated.	SAMPLE: 256.93 – 257.53 SAMPLE: 258.63 – 258.93 SAMPLE: 258.93 – 259.38 SAMPLE: 259.65 – 260.15 (20% pyrite) SAMPLE: 261.58 – 262.81 262.81 – 263.82
263.82	268.65	<u>SILICIFIED ANDESITE:</u> Dark grey cherty-silicified andesite – almost total silica replacement, however remnant banding, fragments, and incompletely replaced porphyritic texture evident throughout. Some of the remnant fragments have been fractured and recemented with the late silica. Throughout there are hairline fracture filling, large blebs and disseminations of pyrite. Some of the blebs are up to 1 cm. across. Throughout the unit there are zones with little to no silica replacement. 263.82 – 264.42: Moderately silicified, fragmental – with pale creamy green fragments which are sub-rounded to sub-angular and range in size from 4 mm. to 2.5 cm. Locally pyrite as discontinuous stringers and disseminated anhedral crystals and small blebs. (continued on next page)	SAMPLE: 263.82 – 264.42

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FIRST LABRADOR RESOURCES LTD. DIAMOND DRILL RECORD

Meterage		Description	Remarks
From	To		
263.82	268.65 (cont'd)	264.42 – 265.19: Weakly epidotized fine to medium grained, dark grey andesite. Lean pyrite crystals scattered throughout (up to 3 mm.). Occasional 0.5 cm. to 1 cm. wide quartz-carbonate stringer partially to 60% replaced by pyrite. Increase in quartz-carbonate and epidotization over last 0.20 m. accompanied by small increase in pyrite – disseminated anhedral crystals and possible phenocryst replacements. Contact at 265.19 cuts core sharply at 62° to C.A. 265.19 – 266.76: Silicified andesite (?) dark grey almost 100% silicification. Laminations/banding over first 0.20 m. at 65° to C.A. (1 mm. to 1 cm. wide laminations). Tightly fractured with hairline pyrite infilling – also pyrite as sub mm. stringers and pinhead sized disseminations. Occasional 0.5 cm. epidotized inclusion throughout. 266.76 – 267.33: Andesite – similar to 264.42 – 265.19. Contact at 267.33 cuts core at 84° to C.A. and is sharp. 267.33 – 268.65: Cherty looking silicified andesite(?) dark grey, remnant brecciated appearance – probably a silicified fault zone. Fragments are close packed and sub-angular to sub-rounded. Lean pyrite mineralization in form of hairline fracture infilling and fine disseminations. Contact at 268.65 cuts core at 37° to C.A.	265.85 – 266.86 – very blocky SAMPLE: 265.19 – 265.70 SAMPLE: 268.25 – 268.65
268.65	274.40	<u>ANDESITE – FRAGMENTAL:</u> Epidotized fragments up to 3 cm. across in a dark green to black fine grained to aphanitic groundmass. Porphyritic throughout unit with phenocrysts 1 mm. to 2.5 mm. Epidotized. Occasional 2 mm. to 4 mm. discontinuous veinlet of quartz, also quartz as fracture fillings locally. Weakly disseminated pyrite throughout. Non-magnetic.	

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FIRST LABRADOR RESOURCES LTD.
DIAMOND DRILL RECORD

Meterage		Description	Remarks
From	To		
274.40	285.25	SILICIFIED ANDESITE: Dominantly intensely silicified (up to 95-100%) fine grained andesite, throughout there are narrow sections of dark green, strongly chloritic and weakly epidotized andesite with little to no silicification. These sections have irregular stringers and veinlets of white and creamy quartz carbonate and contain 1-2% pyrite mineralization as stringers, fracture fillings and disseminations. Core is badly broken due to intense shearing particularly between 276.75 and 279.70. The partially silicified sections have brecciated quartz veins and stringers over widths ranging from 1.5 cm. to 7 cm. Schistosity at 277.05 at 20° to C.A. Some of the siliceous sections display tight fracturing with quartz stringers and veinlets. Others show banding (laminations) at 50°, 55° and 60° to C.A. Some of the bands are up to 3 cm. wide, are buff to cream colored, fractured with late silica cementing. (It is possible (but I suspect not) that the laminated sections are silicified tuffs). The silicified sections have pyrite stringers and veinlets paralleling the banding as well as 1 mm. to 2 mm. disseminations. Locally there are large blebs of pyrite up to 2 cm. x 4 cm. All silicified sections are fairly massive – non-blocky. 275.45 – 276.12: Intensely silicified, fragmental, with epidote alteration of numerous fragments. Banding and shearing at 55° to C.A. Up to 10% of pyrite mineralization as discontinuous stringers and blebs up to 2.5 cm. across. Most of the pyrite parallels the banding. 276.52 – 277.55: Partially silicified, quartz veins, stringers and replacement. 2% pyrite as blebs and disseminations. Non-silicified rock is dark green to black, aphanitic chloritized basalt. 280.05 – 281.40: Intensely silicified, banding at 55° to C.A. Finely disseminated and hairline irregular stringers of pyrite (<2%). 282.40 – 285.25: Intensely silicified. Laminated at 55° at 282.40 and 50° at 284.65. Pyrite as stringers, veinlets and blebs (up to 1.5 cm. x 4 cm.), the highest concentration at 282.40 – 283.60 (5%).	SAMPLE: 275.45 – 276.12 SAMPLE: 282.40 – 283.60

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FIRST LABRADOR RESOURCES LTD. DIAMOND DRILL RECORD

Meterage		Description	Remarks
From	To		
285.25	287.67	BASALTIC ANDESITE: Medium to dark green, locally black; fine to medium grained, weakly to locally strongly chloritic, non-magnetic. The in contact is at 52° to C.A. Over the first 0.30 m. there are numerous sub-rounded fragments up to 1 cm. x 5 cm. of pale greenish-cream, weakly epidotized, also similar fragments at 287.52 – throughout there are irregular blebs and fine disseminations of pyrite, as well as partial replacements of amygdules at 286.10 and 287.27 (less than 2% pyrite).	
287.67	298.60	SILICIFIED ZONE: Intensely silicified (cherty looking) andesite flows alternating with narrow un-silicified porphyritic andesite and diorite (andesite?) dyke. The silicified sections are locally fragmental and/or brecciated, medium to dark grey with widely spaced veinlets and stringers of white quartz-carbonate; contains about 1% pyrite mineralization as hairline fracture filling, irregular stringers up to 1.5 cm. across, and veins up to 1 cm. across. Where fragmental, the matrix is dark green to black aphanitic chloritic material which contains rather high concentrations of pyrite as blebs (up to 1 cm. across) disseminated 2 – 3 mm., anhedral crystals and occasional discontinuous stringer. Contacts and fractures at 45° to 50° to C.A. 288.34 – 288.74: Highly chloritic section with little silicification. 291.50 – 292.60: Fragmented andesite with siliceous fragments up to 2 cm. x 5 cm. highly pyritized, chloritic groundmass. 293.00 – 294.20: Porphyritic andesite – abundant subhedral to anhedral phenocrysts, (up to 3 mm.) which have been epidotized, in a fine grained dark grey to grey-green groundmass. Weakly mineralized with pyrite replacement of phenocrysts. 296.30 – 297.60: Porphyritic andesite – similar to 293.00 to 294.20. In contact at 55° to C.A. 297.60 – 298.60: Silicified fragmental – some fragments are epidotized and partially replaced by pyrite. Pyrite also occurs as; hairline fracture filling, irregular discontinuous narrow stringers and finer disseminations. Contact 297.60 at 85° to C.A., at 298.60 the contact appears to be the same, however core has been ground.	SAMPLE: 297.60 – 298.60

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FIRST LABRADOR RESOURCES LTD.
DIAMOND DRILL RECORD

Meterage		Description	Remarks
From	To		
298.60	299.35	<u>ANDESITE DYKE:</u> Fine grained, dark grey groundmass with abundant sub-hedral to anhedral, 1 mm. to 2 mm., white to light grey feldspar phenocrysts, also dark greenish grey to dark green anhedral phenocrysts - up to 4 mm. across. Weakly mottled appearance. Non-magnetic. Out contact at 90° to C.A. fractured over first 0.30 m. with fracture infillings of white quartz-carbonate - up to 5 mm. wide. In contact is chilled over 3 cm.	
299.35	306.73	<u>ANDESITE:</u> Fine grained, dark purplish grey to dark greenish grey andesite which has been intensely sheared and/or fracture with infilling by white quartz-carbonate. Fracture fillings and stringers are close spaced and range from 1 mm. to 2 cm. wide. The stringers are randomly oriented whereas the fractures/shears cut core at 50° to C.A. Non-magnetic and devoid of sulfides.	
306.73	308.30	<u>ANDESITE DYKE:</u> Same as 298.60 - 299.35, weakly magnetic. In contact at 20° to C.A.; out contact at 72° to C.A.	
308.30	324.40	<u>ANDESITE:</u> Same as 299.35 - 206.73, except the color is dark green to dark greyish green. 310.40 - 310.48: Epidote vein at 54° to C.A. which has been shattered and recemented by white to light grey quartz-carbonate. 311.42 - 312.12: Andesite dyke - same as 306.73 - 308.30, cuts core at both contacts at 20° to C.A. Weakly magnetic. Out contact at 324.40 cuts core at 63° to C.A.	

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FIRST LABRADOR RESOURCES LTD. DIAMOND DRILL RECORD

Meterage		Description	Remarks
From	To		
324.40	327.64	<u>PYROCLASTICS</u>: Lapilli tuff – light green tuffaceous groundmass with pyroclastic particles up to 15 mm. x 25 mm. but average around 12 mm. x 4 mm. These particles have been flattened somewhat with ends coming to a point locally. Intensely schistose parallel to bedding (ie. at 50° to C.A.). 325.03 – 325.46: Fault gouge. 326.10 – 326.26: Fault gouge. Between 325.13 and 326.35 there is 0.42 m. lost core. Contact at 327.64 cuts core at 60° to C.A.	
327.64	338.03	<u>BASALT</u>: Fine grained, dark green to black, massive, brittle, non-magnetic basalt. The in contact is chilled over 1.5 cm. Occasional widely spaced fracture infilling by white quartz-carbonate - irregular and anastomizing. Very lean, finely disseminated, pyrite specks, also occasional shear face smeared with <1 mm. pyrite. 336.28 – 336.39: Pyroclastic – lapilli tuff at 60° to C.A.	
338.03	340.59	<u>ANDESITE</u>: Same as 308.30 – 324.40. Schistose and weakly to moderately chloritic – foliation at 53° to C.A. The quartz-carbonate stringers and fracture filling exists over first 0.80 m. then the unit is more massive with only occasional quartz-carbonate stringer. Out contact cuts core at 74° to C.A. The unit is tightly brecciated over last 1.0 m.	
340.50	341.40	<u>PYROCLASTIC</u>: Lapilli tuff, dark grey groundmass with particles of feldspathic material up to 1 cm. x 0.5 cm. Occasional low angle fracture infilled by white quartz-carbonate (hairline widths). Out contact sheared at 30° to C.A.	
341.40	342.51	<u>ANDESITE</u>: Dark grey, fine to medium grained, tightly fragmented with black chlorite in fractures. Occasional hairline fracture infilled by white quartz-carbonate. Out contact at 80° to C.A.	

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FIRST LABRADOR RESOURCES LTD.
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Meterage		Description	Remarks
From	To		
342.51	345.85	<u>TUFF</u> : Black, fine grained, massive with occasional irregular fracture infilling by white quartz-carbonate, bedding at 35° to C.A. Numerous highly siliceous bands cut core at 60° to C.A. ranging in width from 3 mm. to 1.5 cm. Out contact sharp at 50° to C.A. Unit is non-magnetic.	
345.85	347.60	<u>PORPHYRITIC ANDESITE</u> : Dark grey to black fine grained groundmass with abundant white and light grey anhedral phenocrysts (1mm. to 2 mm. sized). Massive brittle, moderately magnetic. In contact chilled over 3.5 cm. Out contact sharp at 50° to C.A.	
347.60	353.50	<u>DIORITE</u> : Dark grey, medium grained, even textured moderately magnetic diorite grading to fine grained from 348.65 to 349.45. At 349.45 there is a 1.0 cm. quartz carbonate vein cutting core at 25° to C.A. Narrow 1-2 mm. epidote marks both contacts. Elsewhere throughout the unit there are occasional 1 mm. to 4 mm. irregular fracture filling by white quartz-carbonate. Moderately magnetic. Contact gradational towards 353.50.	
353.50	357.90	<u>ANDESITE</u> : Dark green to black, fine grained, non-magnetic, weakly but evenly porphyritic throughout with 2 mm. x 1.5 mm. sub-hedral and anhedral white phenocrysts. Massive. Contact at 357.90 at 45° to C.A.	
357.90	370.25	<u>DIORITE</u> : Dark grey to greenish grey, medium to coarse grained, evenly textured, moderately to strongly magnetic, massive diorite. Over first 2 m. there are irregular anastomizing 2-4 mm. stringers and fracture fillings of white quartz-carbonate. 357.90 – 358.25: Fine grained – chilled contact. 369.90 – 370.25: Becoming finer grained towards contact. Out contact cuts core at 60° to C.A.	

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FIRST LABRADOR RESOURCES LTD.
DIAMOND DRILL RECORD

Meterage		Description	Remarks
From	To		
370.25	373.86	<u>ANDESITE PORPHYRY</u> : Dark green-grey to black, fine grained groundmass, with sub-hedral to anhedral widely spaced 3 mm. x 4 mm. phenocrysts which are dominantly medium grey to greenish grey; over first 0.90 m. the phenocrysts are dominantly white. Non-magnetic. Similar to 353.50 – 357.90. Out contact is chilled over 30 cm. Out contact at 60° to C.A.	
373.86	374.23	<u>ANDESITE</u> : Dark grey with brownish-purplish tinge, fine grained, fractured, with infilling by greenish-grey, quartz-carbonate. Non-magnetic.	
	374.23	END OF HOLE.	