

676430

Lac Minerals Ltd.
Red Mountain

U94-1117

LAC

SUMMARY DRILL REPORT

Location Coordinates		Field Location	British Columbia	Lengths measured in meters	
Northing	1,400.000	Casing	0.61	Started	/ /
Easting	4,880.000	Core Size	BQTK	Completed	/ /
Elevation	1,790.000	Logged by	Gernot Wober	Logged	01/06/94
		Checked by		Checked	/ /
		Mx'n Zone			
Length & Collar Orientation		Claim Group	ORO1		
Length	177.09	Map Refer'ce	103P/13W		
Azimuth	90.0	Region	Skeena Mining Division		
Dip	-25.0	Driller	JT Thomas		
		Assayer	EcoTech Laboratories		

Comments

Drilling AV zone.

Condensed Log

U94-1117

Interval	Rock Type	Grain size	Modifier
0.00 0.61	Casing		
0.61 57.38	HFx1	f-m	
57.38 75.16	BdT	f-c	
75.16 97.44	HFx1		
97.44 102.93	Green dyke		
102.93 171.90	HFx1		



DRILL LOG
GEOLOGY DESCRIPTION

Lengths measured in meters

Logged by: Gernot Wober	01/06/94	Northing	1,400.000	Length	177.09
Checked by:	//	Easting	4,880.000	Dip	-25.0
		Elevation	1,790.000	Az	90.0

Geology Description

U94-1117

From	To	LITHOLOGY/Capsule/DESCRIPTION	Grain size	Modifier	
0.00	0.61	Casing			A
0.61	57.38	HFX1	f-m		A
		<p>LITHOLOGY: Medium to dark grey fine grained to very fine grained matrix with patchy 15% white- beige <1-2.5 mm subhedral hb crystals. There are zones devoid of hb. Patchy to 5% 1-2 mm opaque white sub-round fsp crystals. The fsp doesn't really appear very often; only on occasion (parties etc.) .</p> <p>ALTERATION: Strong pervasive po to matrix, moderate pervasive ser, patchy brownish-pink K-spar(?), patchy moderate chl as fracture coating and occasional stringers, 1-2% cc as stringers and fracture fill patchy moderate to strong trm as fine grained and coarse grained disseminated crystals and stringers.</p> <p>MINERALIZATION: 15-20% very fine grained disseminated po, occasional concentrated bands and stringers; 2% py stringers 1-3 mm. STRUCTURE: Massive. LC: Sharp at 60°.</p> <p>COMMENTS: Alteration and phenocryst textures change rapidly in interval.</p>			
5.85	6.02	MINERALIZATION: Band of 40% po stringers, 5% sph, UC: at 60°; LC: At 40°.			C
6.02	7.10	ALTERATION: Very strong po alteration with to 20% po very fine grained and stringers, trace 5% black trm blebs, very strong ser.			C
7.10	11.00	ALTERATION: Patchy perv trm; trm zones 10-20 cm wide.			C
7.40	7.47	ALTERATION: Two 1 cm calcite stringers at 40° with chl and ser on edges.			C
12.82	15.85	STRUCTURE: Moderate BC bleached light-grey-white; most of bleaching associated as blebs around carb and quartz stringers at 65° to 70°; weak to moderate chl on fractures.			C
15.54	15.69	STRUCTURE: Bleached . Brecciated crushed and annealed zone at 50°.			C
16.00	22.00	ALTERATION: Patchy pinkish brown and pale green alteration, moderate probably K-spar and ser.			C

pyrite and po occur intermitably intermixed - also got sections with only one or the other

po - seems to be more fracture-controlled, although does occur in matrix

Geology Description

U94-1117

From	To	LITHOLOGY/Capsule/DESCRIPTION	Grain size	Modifier
21.14	21.34	MINERALIZATION: Band of 25% po stringers, trace-1% py, 2-3% cc stringers, UC: Sharp at 65°; LC: Sharp at 70°.		C
21.84	21.86	STRUCTURE: 2 cm cc brecciation with 30% chl and wall rock fragments at 65°.		C
22.41	22.74	MINERALIZATION: 10% cc as 1 cm stringers at 50° to 60°. Some stringers are vuggy.		C
23.59	23.76	STRUCTURE: Weak brecciation with strong K-spar and ser alteration as patchy pink-brown and green zones, 1-2% trm, moderate chl on fracture, and trace -1% mariposite. UC: At 65°; LC: At 70°.		C
24.00	33.77	ALTERATION: Moderate chl alteration as stringers to 5 mm and fracture fill, weak tourmaline as fracture fill and stringers.		C
24.20	25.00	STRUCTURE: Moderate fracture and chl annealed.		C
34.19	34.38	STRUCTURE: Weak to moderate brecciation with 15% bleached sil white-grey matrix. UC: Sharp at 60°. LC: Sharp at 50°.		C
35.50	35.87	ALTERATION: Mottled grey and green texture, almost weak bx texture.		C
35.87	35.90	ALTERATION: 1.5 cm wide blebby axinite-chl stringer at 25°.		C
38.42	38.51	ALTERATION: 1 cm quartz-cc stringer at 55° with bleached zone 10 cm above UC associated with quartz-cc stockwork of <1 mm stringers; bleached 15 cm below LC as well; moderate broken core.		C
39.93	39.96	ALTERATION: 1.5 cm axinite stringer at 55°.		C
40.20	40.35	ALTERATION: Strongly bleached zone with 1 cm quartz-cc stringer at 35° in centre.		C
40.60	41.00	ALTERATION: 3 cm axinite vein at 15° with wallrock fragments in centre and peeling off edges.		C
44.20	45.00	ALTERATION: Bleached grey-brown with strong to moderate fracture and cc and chl annealed; moderate BC associated with chl slip at 15°.		C
45.47	46.67	Bx? LITHOLOGY: Strong po, ser plus moderate K-spar (brownish-red plus argillite) alteration as swirled and marbled texture. Possibly just very intense alteration and not bx'd. ALTERATION: Strong po, moderate to strong chl, patchy weak trm all disseminated. LC: Sharp at 70°. LC: Sharp at 65°.		B
47.15	52.87	ALTERATION: Strong pervasive ser alteration, moderate po as very fine grained disseminations, moderate trm as brown-black specs disseminated. Marbled or wispy and swirled texture with greenish-brown hue.		C

24.4m - mottled, example of hydrothermal alteration off fractures, no movement of fragments of silice + tourmaline? on light fractures are soft chlorite here

DRC-33

rev23F 0004

Geology Description

U94-1117

From	To	LITHOLOGY/Capsule/DESCRIPTION	Grain size	Modifier
52.44	52.70	Lost water. STRUCTURE: Moderate BC with moderate chl on fracture surfaces, fragments moderate to strongly fracture and chl-trm annealed. Drill lost water here.		B
53.72	53.84	STRUCTURE: cc brecciation with 2 mm chl-rich gouge at 45° at LC.		C
53.84	54.47	ALTERATION: Strong pervasive trm-chl as very fine grained black disseminations with 10 cm bleached white-grey zone to LC with 10-15% cc as fracture fill and stringers; LC: Bx'd and foliated at 40°		C
54.47	58.47	MINERALIZATION: 3-5% disseminations and stringers red-brown sph. <i>sphal associated with black Lg. "sediment" layers and frags</i>		C
57.38	75.16	BdT LITHOLOGY: Light-grey to black beds from <1 cm to 35 cm at 25 to 40°; coarser beds may be HFxl units; there are definitely some apophyses of HFxl mixed with sediments. ALTERATION: Moderate ser throughout, weak chl on fractures, weak cc as fracture fill and stringers. MINERALIZATION: 5-8% fine grained disseminated po, 3% disseminated and stringer py, patchy 1-5% disseminated sph. STRUCTURE: BdT 25-40° with beds <1 cm to 35 cm. LC: Sharp at 30° with increasing components of HFxl apophyses 4 m to LC. COMMENTS: HFxl seems to randomly intrude throughout this sed interval, difficult to tell the difference between HFxl and coarser sediment.	f-c	A
58.00	71.00	STRUCTURE: Bedded 45°, 30°, 25°, 35°, 35°.		B
58.46	59.29	Bx LITHOLOGY: Strongly bx'd with 60% subround black and grey fragments <1 cm to 4 cm mostly FT fragments with fine grained HFxl matrix. LC: Sharp at 60°. UC: Sharp at 70°.		B
59.48	60.48	HFxl? STRUCTURE: Graded bed with finer component up hole and coarser angular black fragments in fine grained grey matrix to LC; 20% fragments in lower 20 cm; possibly a HFxl unit. UC: At 50°. LC: At 65°.	<i>63.2 - DVC # - bedded sediments? pyrite and sphalerite in bands that is bedding but later</i>	C
60.68	61.59	HFxl? LITHOLOGY: Very fine grained grey matrix with 20% opaque white-grey wispy specs, possibly lcx (or Hb?). Looks very much like fine grained HFxl but not distinctively. UC: Sharp at 30°. LC: Sharp at 25° marked by 3 cm cc vein with wallrock fragments in centre.		B
64.80	65.04	MINERALIZATION: 20% sph, 10% po, 4-5% trm? in band with UC sharp at 40°, LC: At 45°.	<i>DVC-35 57.8 smaller piece 66.9</i>	C
70.94	71.36	HFxl? LITHOLOGY: Light grey fine grained matrix with hazy white 1-2 mm specs (altered hb?) to 20%; wallrock fragments to 2 cm throughout, 5% disseminated sph, 1-2% disseminated py.	<i>? black original below? intrusivelosted bxs with later pyrite stringers, chilled margin on larger piece</i>	B
75.16	97.44	HFxl LITHOLOGY: Very fine grained grey to aphanitic matrix with 15-20% grey to beige-grey 1- 2.5 mm hb lathes, 5-10% opaque white subround fsp blebs/crystals. ALTERATION: Strong po alteration as very fine grained disseminations, moderate to strong patchy trm alteration as fine grained disseminations and fracture fill, weak cc		A

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U94-1117

From	To	LITHOLOGY/Capsule/DESCRIPTION	Grain size	Modifier
		alteration as fracture fill. MINERALIZATION: 10-20% vrey fine grained disseminated po +/- stringers, 2-3% py disseminations and stringers, patchy 1-2% sph. STRUCTURE: Moderate to strong fracture and ser-trm annealed. LC: Brecciation over 2.5 m to LC with sharp foliation at 60° with associated 5% coarse grained py.		
75.50	75.52	ALTERATION: 1 cm cc stringers at 55°.		C
79.59	79.84	STRUCTURE: weak brecciation with trm-ser matrix.		C
83.10	83.64	ALTERATION: 10% quartz-axinite stringers mostly at 55° from 1 mm to 1 cm wide.		C
84.56	85.20	MINERALIZATION: 10% <1 mm to 1 cm sph stringers at 30°.		C
85.20	85.35	ALTERATION: Strong trm-quartz with 1 cm po stringers at 50° to UC, 1.5 cm sph stringer at 30° to LC.		C
85.75	85.86	MINERALIZATION: 20% sph in blebs.		C
86.10	86.87	ALTERATION: 20% quartz-axinite stringers 3 mm to 4 cm at 30-50°.		C
88.90	89.13	Bx dyke LITHOLOGY: 60% fragments in fine grained grey HFxl matrix 30% of fragments are black FT, 70% HFxl, angular to subangular 2 mm to 2 cm. UC: Sharp at 15°. LC: Sharp at 15°.		B
89.64	89.83	Trm bx STRUCTURE: Strongly fractured to brecciated, insitue, 25% black trm-ser matrix, angular-subangular fragments <2 mm to 1 cm. Contacts gradational.		B
91.60	91.92	ALTERATION: 40% qtz-tremolite-chl and quartz axinite stringers and veins in 3 main veins 2 to 3.5 cm at 20° to 35°; axinite at 20°, qtz-trm at 35°.		C
95.33	97.44	Trm-ser-bx STRUCTURE: Moderate to strong fracture and trm-ser annealed to patchy strongly brecciated with fragments < 1mm to 2 cm in trm-ser matrix; fragments all HFxl. MINERALIZATION: 10-15% po as very fine grained disseminations and stringers, 1% py as stringers, trace-1% sph. UC: Gradational. LC: Sharp at 60°.		B
97.44	102.93	Green dyke LITHOLOGY: Green to pale green very fine grained dyke with 10-15% dark green specs-probably chl. ALTERATION: Moderate pervasive chl, weak-moderate ser, patchy 2-5% quartz axinite. MINERALIZATION: 5% po bleb and fine grained disseminations. STRUCTURE: Massive. LC: Sharp at 20°.		A
100.00	101.00	ALTERATION: Axinite stockwork mostly at 5-10° and 50°. 30% stringers quartz-axinite.		C

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U94-1117

From	To	LITHOLOGY/Capsule/DESCRIPTION	Grain size	Modifier	
101.70	101.80	ALTERATION: 2 cm quartz-axinite at 20°.			C
102.93	171.90	HFxl DAP: 75.16m to 97.44m.			A
104.20	105.30	MINERALIZATION: 20% po stringers <1 mm to 1 cm.			C
109.50	129.20	AV zone ALTERATION: Strong pervasive ser alteration pervasive, weak trm association with py stringers and patchy disseminations, trace mariposite? MINERALIZATION: 20-25% coarse grained py veins and stringers, also disseminations, trace-1% patchy cpy. LC: Brecciation over 1m with introduction of sph; contact marked by appearance of po.			B
111.50	111.93	Bx LITHOLOGY: Strongly bx'd and K-spar altered zone with 30% fragments <2 mm to 3 cm subround to round in HFxl matrix. ALTERATION: Strong brownish-red K-spar, strong pervasive ser. MINERALIZATION: 20% coarse grained py disseminated in matrix. LC: u.c. sharp at 80°, LC: Sharp at 55°.			B
117.41	117.94	Bx DAP: 111.50 m to 111.93 m. UC: Sharp at 40°. LC: Sharp at 70°.			B
121.40	123.00	MINERALIZATION: 30% py as stockwork and blebs and stringers in strong ser +/- mariposite zone with patchy stringer po to 5%.			C
126.54	130.00	Bx LITHOLOGY: HFxl matrix with 30-50% subround < 3 mm to 5 cm HFxl fragments. ALTERATION: Strong ser pervasive trace mariposite. MINERALIZATION: 127-128.5 m; 15-20% disseminated coarse grained py; 128.5-129.2 m 10% disseminated sph, 10% disseminated py; 129.20-130.00 20% sph in matrix as stringers and disseminations.			B
130.00	154.00	MINERALIZATION: 5-10% disseminated bleb sph, 15-20% po as very fine grained disseminations in matrix and occasional stringers, 2-3% disseminated py.			C
140.24	140.86	Bx LITHOLOGY: 30% subround to subangular fragments <5 mm to 3 cm in fine grained grey to dark grey HFxl matrix. ALTERATION: Strong po as very fine grained disseminations in matrix, moderate to strong pervasive ser. MINERALIZATION: 15-20% very fine grained disseminated po, 1-2% disseminated po, 1-2% disseminated py, occasional stringer, 5% disseminated sph as 3 cm band at UC and 1 cm band at LC. LC: u.c. hazy at 70° marked by 3 cm sph band, LC: Sharp at 75°, also marked by sph as 1 cm band.			B
142.10	144.36	Bx DAP: 140.24 m to 140.86 m. MINERALIZATION: 30% very fine grained disseminated po, 5-8% disseminated sph throughout, 1-2% disseminated py. LC: u.c. sharp at 70°; LC: Sharp at 30° marked by 1 mm py stringer.			B
147.22	147.57	STRUCTURE: 32 cm wide, sph-po rich bx zone with 1 mm gouge seam at 50° at lower contact. UC: Sharp at 50°.			C

Handwritten notes:
 110-111m
 DVC-7
 DVC-9 - standard we not massive py
 DVC-10 close up
 - cut by later silica veins that give it a cauliflower texture to Pyrite - some po sections may correlate with higher grade
 po or py, not both together here

Handwritten note: DVC-11, 29.5

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U94-1117

From	To	LITHOLOGY/Capsule/DESCRIPTION	Grain size	Modifier
148.11	148.34	Bx dyke? LITHOLOGY: Hole strongly ser-sil(?) altered 1-5 mm subround fragments in fine grained dark grey HFxl matrix. ALTERATION: Strong ser possibly sil (K-spar?) to moderate degree. MINERALIZATION: 15% very fine grained disseminated po, 2% disseminated py, trace sph. LC: UC and LC sharp at 10°. COMMENT: Looks like a lapilli stone text.		B
148.74	149.18	FZ? STRUCTURE: Strongly foliated at 50-70° with 5 mm gouge seam at LC. Moderate BC, foliation defined by crushed and annealed wallrock. U.C. Sharp at 60°; LC: Sharp at 70°.		B
156.95	158.09	Bx LITHOLOGY: 15% subround <3 mm to 1 cm fragments, 1 fragment 10 cm in fine grained dark grey HFxl matrix. ALTERATION: Moderate ser pervasive. Moderate K-spar to fragments. MINERALIZATION: 2-3% fine grained disseminated po in blebs, 6% fine grained disseminated py. LC: UC Sharp at 40°. LC: Sharp, banded at 60°. COMMENTS: 10 cm fragments of coarse grained HFp.		B
162.00	171.90	ALTERATION: Patchy marked and swirled alteration texture, predominant green ser and wide K-spar as pinkish-brown hue.		C
164.71	164.80	ALTERATION: 3 cm quartz-cc-tremolite vein at 25°, 5% po bleb and chl throughout.		C
169.00	169.45	Bdd T? LITHOLOGY: <1 cm to 3 cm bands/bedding? Dark grey to pale green. ALTERATION: Strong po as very fine grained disseminations, moderate sil-ser pervasive. MINERALIZATION: 20% very fine grained disseminated po and blebs and stringers to 2 mm, 1% disseminated py. STRUCTURE: Locally disrupted bedding(?). LC: UC brecciation over 15 cm, cc sharp at 55°. COMMENTS: Can't really tell if this is bedding or banded altered HFxl.		B
171.50	171.90	Bx LITHOLOGY: 40% fragments subangular subround 3 mm to 2 mm diameter, possibly one 15 cm fragments of BdT or just a banded section; fragments mottled dark grey and light grey. ALTERATION: Moderate pervasive, moderate to strong po as very fine grain disseminations. MINERALIZATION: 15% very fine grained disseminated po and bleb and stringer; 2% disseminated blebby py. LC: UC bx'd sharp at 35°. LC: Gradational over 3 cm.		B
171.90	177.09	HFP MINERALIZATION: Fine grained dark grey to aphanitic matrix with 10% white beige 2-3 mm occasional 4 or 5 mm subhedral to euhedral hexagonal crystals. 10-15% 1-2 mm opaque white subround to subhedral fsp crystals visible in patches where alteration less intense. ALTERATION: Moderate to strong po as very fine grained disseminations in matrix. Weak to moderate chl on fractures weak cc as 1-2% fracture fill. MINERALIZATION: 10-15% very fine grained disseminated po, 2-3% py stringers and blebs. STRUCTURE: Massive. LC: E.O.H. COMMENTS: Good HFP.	m-c	C
175.87	176.80	STRUCTURE: Moderate to strong BC, patchy zones or redrilled subround fragments <1 cm to 3 cm, otherwise fragments range from <1 cm to 20 cm.		C

PVL 12
A 13

DVL 13
leucopene

U94 1117
-25°
045° AZ

