

RIO ALGOM EXPLORATION INC.

DIAMOND DRILL LOG

PROPERTY: Gullbridge

HOLE No.: GB-134

Collar Eastings: 170.00

Collar Northings: 4660.00

Collar Elevation: 0.00

Grid: Main

Purpose: Test Southern Extention of Mineral Pt. mineralized horizon.

Collar Inclination: -54.00

Grid Bearing: 125.00

Final Depth: 38.10 metres

Hole Stopped and Restarted as GB-135.

Logged by: M.H.Lenters

Date: June 19 to 20, 1990

Down-hole Survey: Acid Test

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS		WIDTH
			FROM	TO	
0	2.44	OVERBURDEN			
2.44	10.50	RHYOLITE (WEAKLY BRECCIATED) - mottled slightly greenish to purplish as well as creamy to pinkish medium grey coloured - consists of irregular, small (few mm to a few cm), diffusely bounded, patches or fragments of generally salmon pinkish, aphanitic, massive rhyolite occurring in a fine to medium-grained (<1 mm), weak to locally moderately foliated, slightly sericitic, sheared quartzose rock that also contains thin (1-5 mm), mottled, irregular bands of more massive/aphanitic rhyolite - protolith was massive rhyolite but now weak to locally moderately sheared, producing quartz-sericite schist, with weak to moderately well developed foliation - locally rhyolite exhibits minor amounts of small (1 mm) subhedral, white feldspar phenocrysts - foliation generally at 15 to 20° to CA - unit contains about 10% quartz veins as 1 to 10 mm, very irregular, branching, crosscutting patches and sub-planar veins of milky white quartz. Locally, minor amounts of salmon pink feldspar occurs with the quartz veining. Veining can have relatively sharp contacts, but locally diffuse giving unit a pervasively silicified appearance - unit also exhibits fine brecciated (crackled) appearance due to abundant hairline quartz & silica veinlets, as well as late (cuts quartz veining) sericitic/epidote, subplanar, hairline fractures - no visible sulphide mineralization			

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS		WIDTH
			FROM	TO	
		- generally competent core, but locally well broken into rubblely zones - lower contact sharp but somewhat irregular intrusive contact $\approx 40^\circ$ to CA			
10.50	19.42	MAFIC (DIABASE) DYKE - dark green-grey, very fine to fine-grained, homogeneous ophitic textured mafic diabase dyke - unit is massive and unfoliated, and generally weakly magnetic - contains 2 to 3%, small (.25 to 3 mm), subhedral, slightly epidotized, feldspar phenocrysts that locally exhibit zoning - dyke exhibits slightly finer-grained (chilled) contact margins over several 10's of cm from contacts, as well as a chilled zone of several 10's of cm at 18.00 m suggesting a long lower contact subparallel to drill azimuth direction (dyke striking $\approx$ E-W) - minor to locally 5%, thin (hairline to 1 mm), irregularly subplanar epidote-carbonate fractures/veinlets. Locally the dyke is altered across a few mm to 1 or 2 cm in areas between, or adjacent to these fractures, to a light to medium epidote green colour - locally contains minor coarse (1-3 mm) crystalline pyrrhotite - competent core with ≈ 20 cm breakage - lower contact very sharp and planar at 60° to CA.			
19.42	38.10	RHYOLITE (WEAKLY BRECCIATED) - similar to 2.44 to 10.50 m - mottled, slightly greenish or buff medium greys to locally a purplish medium grey or salmon pink; Non-magnetic - consists of irregular, thin (1-10 mm), diffusely bounded bands			

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			FROM	TO	
		and patches of pinker coloured, aphanitic, massive rhyolite in greener coloured fine-grained, weak to moderately schistose sheared rhyolite. Generally these zones/patches/bands are irregular with gradational contacts, but locally rhyolitic fragments occur with sharp contact boundaries within quartz-sericitic foliated rhyolitic material			
		- protolith a massive rhyolite flow, now weak-moderately shear foliated			
		- locally the fractured, pinkish, massive, aphanitic rhyolite zones form sections several 10's of cm wide with little foliation development. These sections generally contain small (1-3 mm), subhedral, white, feldspar phenocrysts			
		- foliation varies from 0 to $\approx 40^\circ$ to CA with average and most about 15 to 25° to CA			
		- 3-5%, small (1 to 10 mm), white quartz patches, and irregularly oriented & branching to subplanar veins at various angles to core axis. Usually with somewhat sharp contacts where subplanar, and more diffuse contacts where irregular patchy to wormy veins. Locally silicification occurs not as diffuse veins but as pervasively silicified rock patches. Quartz veining often contains some bright orange to salmon pink feldspar locally forming 50% of irregularly quartz veined zones/patches			
		- unit exhibits minor lighter grey, weakly altered patches (sericitic-carbonate?) adding to the mottled appearance of unit			
		- 3-5%, thin (hairline to 1 or 2 mm), wavy but generally planar, to irregularly oriented crackle breccia veined sections, consisting of sericitic fractures/veinlets; planar sericitic fracturing generally oriented at 70° to CA, although numerous irregular veinlets occur at various orientations; some of these fractures exhibit minor slippage (lineations) and some have slight epidote green colour			
		- no visible sulphides			
		- relatively competent core with 5 to 10 cm breakage, often along fractures at 60 to 70° to CA, but locally very rubbly broken into $\frac{1}{4}$ to 1 cm pieces across 30 to 50 cm wide zones			

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FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	ASSAYS TO	WIDTH
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- lower contact not encountered.

8.10 END OF HOLE

- hole stopped as drill head slipped from -60° to -50°, and casing at 54° instead of -60°. Acid test at 38.10 m = -50°. Hole will flatten too much at this angle so hole stopped and recollared at -60° as GB-135.

CASING LEFT IN HOLE

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
38.10	-50.00	125.00

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