

**169-1038G-15X-CC, Piece 1 (0-3 cm)****Thin section:** # 82**ROCK NAME:** Microcrystalline, moderately plagioclase-, sparsely olivine-phyric basalt**GRAIN SIZE:** Microcrystalline to glassy.**TEXTURE:** Variolitic to intersertal; porphyritic.

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	MORPHOLOGY	COMMENTS
<b>PHENOCRYSTS</b>					
Plagioclase	5	5	0.5-1.5	Acicular to prismatic	Generally fresh. Composition: An <sub>54</sub> .
Olivine	0.25	<1	1	Prismatic.	Partly altered to talc.
<b>GROUNDMASS</b>					
Plagioclase	20	20	0.1	Acicular.	
Magnetite	5	5	0.01-0.1	Granular.	
Mesostasis					
(cryptocrystalline)	40				
(glassy)	30				Altered? to brown clay(?)

SECONDARY MINERALOGY	PERCENT	REPLACING/ FILLING	SIZE (mm)	SHAPE	COMMENTS
Talc	<1	After olivine	0.001		Very fine-grained, ragged, and interwoven.
Smectite	Trace	Crosscuts	0.001		Fills 0.1 mm wide vein crosscutting rock.

VESICLES/ CAVITIES	PERCENT	SIZE (mm)	FILLING	SHAPE	COMMENTS
Vesicles	1	1.5	Open.	Rounded.	

**COMMENTS:****169-1038G-16X-1, Piece 1 (0 -5 cm)****Thin section:** # 83**ROCK NAME:** Plagioclase, clinopyroxene, olivine basalt**GRAIN SIZE:** Fine- to medium-grained (aphyric).**TEXTURE:** Subophitic, intersertal.

PRIMARY MINERALOGY	PERCENT PRESENT	PERCENT ORIGINAL	SIZE (mm)	MORPHOLOGY	COMMENTS
<b>GROUNDMASS</b>					
Plagioclase	49	50	0.1-5	Acicular laths.	Relatively fresh, some have a minor dusting of clay along rims and some cleavages and fractures. Composition: An <sub>55</sub> -An <sub>60</sub> .
Clinopyroxene	20	20	0.1 to 2.5	Stubby subhedral to euhedral, some elongate.	Relatively fresh.
Magnetite	Trace	Trace	0.01	Anhedral, ragged.	Interstitial to plagioclase and clinopyroxene, at clinopyroxene grain boundaries, and as inclusions in clinopyroxene (rare).
mesostasis	0	30	0.001		Very fine-grained, interstitial to plagioclase and clinopyroxene.
<b>SECONDARY MINERALOGY</b>					
Chlorite/smectite	30	Mesostasis	0.001		Very fine-grained, intersitial to plagioclase and clinopyroxene.
Chalcopyrite	Trace.	Mesostasis	0.02	Anhedral.	Ragged blebs in mesostasis.
<b>VESICLES/ CAVITIES</b>					
None	PERCENT	SIZE (mm)	FILLING	SHAPE	COMMENTS

**COMMENTS:** Phenocrysts are relatively unaltered; mesostasis is completely altered to chlorite/smectite.