		General Information				
Sample Name (IGSN)		EX1708-D20-1				
Describer		Kevin Konrad				
Sample Location		Middle Bank				
Lithology prefix		Olivine				
General Lithology		Basalt				
Texture 1		Hyaloclastite				
Texture 2	Carbonate cement					
Whole Rock Original (%)	100	Check [ Ph + Vs + Gm = 100% ]	ОК			
Whole Rock Present (%)	10	Check [ Or = Pr + Rf ]	ОК			
Whole Rock Replaced (%)	90	Check [ Or = Pr + Rf ]	ОК			
Total Groundmass Original (%)	100	Check [ Gp + Gl + Ms = 100% ]	ОК			
Total Groundmass Present (%)	0	Check [ Or = Pr + Rf ]	ОК			
Total Groundmass Replaced (%)	100	Check [ Or = Pr + Rf ]	ОК			
Whole Rock Summary		ered hyaloclastite with phosphorite (maybe calcite) on and glassy. Shards potentially contain clinopyroxene r small (2-3 mm) but some get up to 3 cm	micro/phenocrysts. Most shards are			

An olivine-basalt (hyaloclastite) with carbonate cement. The olivine are only partially recrystallized to iddingsite. The matrix consists of Fe-oxide altered glass with palagonite rimmed vesicles. Interesting to see surviving olivine, likely a function of thick carbonate infill.

**Thin Section Summary** 



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**Transmitted Light** 

PHENOCRYSTS [Ph]	OL	PLAG	ОРХ	CPX	SPINEL	OTHER	VESICLES [Vs]	GRNDM [Gm]
Original (%) [ Or ]	10						20	
Present (%) [ Pr ]	7						5	
Replaced / Filled (%) [ Rf ]	3						15	
Check [ Or = Pr + Rf ]	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК
Minimum Size (mm)	0.2						0.1	
Maximum Size (mm)	1						0.25	
Modal Size (mm)	0.75						0.25	
Shape	Subhedral						Rounded	
Habit								
Zonation Type								
Zonation Extent								
<b>Exsolution Type</b>								
Special Features								
Comments	Partial iddingsite recrystallization						Palagonite rims	

GROUNDMASS [Gp]	OL	PLAG	ОРХ	СРХ	SPINEL	OTHER	GLASS [GI]	MSTASIS [Ms]
Original (%) [ Or ]							100	
Present (%) [ Pr ]							0	
Replaced / Filled (%) [ Rf ]							100	
Check [ Or = Pr + Rf ]	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК
Minimum Size (mm)								
Maximum Size (mm)								
Modal Size (mm)								
Shape								
Habit								
Comments								

