		General Information			
Sample Name (IGSN)		EX1706-D6-1			
Describer	Kevin Konrad				
Sample Location	Keli Ridge				
Lithology prefix	spinel-clinopyroxene				
General Lithology	Basalt				
Texture 1	Alkaline				
Texture 2					
Whole Rock Original (%)	100	Check [ Ph + Vs + Gm = 100% ]	ОК		
Whole Rock Present (%)	80	Check [ Or = Pr + Rf ]	ОК		
Whole Rock Replaced (%)	20	Check [ Or = Pr + Rf ]	ОК		
Total Groundmass Original (%)	100	Check [ Gp + Gl + Ms = 100% ]	ОК		
Total Groundmass Present (%)	70	Check [ Or = Pr + Rf ]	ОК		
Total Groundmass Replaced (%)	30	Check [ Or = Pr + Rf ]	ОК		
Whole Rock Summary	another ph	ttled basalt which is likely coarse grained. Contains c hase (or filled vesicles). Very dense rock. Possible alte te grains. Rock is coated with a thin layer of phospho crust.	ered glass rind in some areas with a few		
Thin Section Summary	phenocrys Clinopyros Augite gi	nteresting alkali-basalt with both clinopyroxene and sts). The spinels are most likely magnetite and are po kene typically have beautiful blue extinctions and sec rains commonly have abundant spinel inclusions arous e contains irregular shaped vesicles with complete ze pyroxene, spinel (~50%) and altered	otentially (likely?) xenocrystic in origin. ctor zoning indicating they're Ti-augite. und the outer most zone of the grain. colite infill. Groundmass consists of		



PHENOCRYSTS [Ph]	OL	PLAG	ОРХ	СРХ	SPINEL	OTHER	VESICLES [Vs]	GRN
Original (%) [ Or ]				20	10		5	
Present (%) [ Pr ]				20	10		0	
Replaced / Filled (%) [ Rf ]				0	0		5	
Check [ Or = Pr + Rf ]	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК
Minimum Size (mm)				0.5	0.1		0.1	
Maximum Size (mm)				2.5	1		0.75	
Modal Size (mm)				1.5	0.75		0.5	
Shape				subhedral	subhedral		irregular	
Habit								
Zonation Type				sector				
Zonation Extent				common				
Exsolution Type								
Special Features				blueish extinction				
Comments				Spinel inclusions frequent along grain rims.	CPX is commonly adhered to the edges of the grain (glomerocrystic?)	;	Zeolite infilling	

GROUNDMASS [Gp]	OL	PLAG	ОРХ	СРХ	SPINEL	OTHER	GLASS [GI]	MST
Original (%) [ Or ]				10	50			40
Present (%) [ Pr ]				5	50			0
Replaced / Filled (%) [ Rf ]				5	0			40
Check [ Or = Pr + Rf ]	ОК	ОК	ОК	ОК	ОК	ОК	ОК	ОК
Minimum Size (mm)				0.01	0.01			
Maximum Size (mm)				0.05	0.1			
Modal Size (mm)				0.01	0.01			
Shape				subhedral	subhedral			
Habit								
Comments								Most

## Transmitted Light







