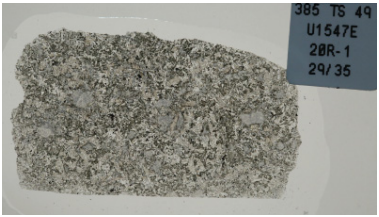
THIN SECTION LABEL ID: **385-U1547E-20R-1-W 29/35-TSB-TS 49** Thin section no.: 49

Observer: Wei Xie

Thin section summary: LITHOLOGY: aphyric basalt sill GROUNDMASS: fine-grained, felty GRAIN SIZE DISTRIBUTION: equigranular, 45% pl + 40% cpx TEXTURE: porphyritic PHENOCRYSTS: 10% clinopyroxene VESICLES: 5%, sub-rounded, fille with fine-grained zeolite ALTERATION: moderately altered

Plane-polarized: 55567191



Cross-polarized: 55567261

Igneous Petrology

Lithology: clinopyroxene phyric basalt sill **Groundmass grain size (avg.):** fine-grained [NMJ05]

Texture: porphyritic **Grain size distribution:** Bimodal

Phenocrysts	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Clinopyroxene	10	5	5	0.8	1.5	euhedral	elongate	

Groundmass	Original (%)	Present (%)	Replaced (%)	Size min. (mm)	Size max. (mm)	Shape	Habit	Comments
Plagioclase	45	35	10	0.2	0.6	euhedral	elongate	
Clinopyroxene	40	10	30	0.2	0.6	subhedral	elongate	

Vesicle	Original (%)	Empty (%)	Filled (%)	Size min. (mm)	Size max. (mm)	Shape	Density	Comments
	5	0	5	0.5	2	subrounded		

Alteration

Alteration intensity: moderately altered **Texture of Alteration** patchy **Recrystallization extent:** weak [recryst]