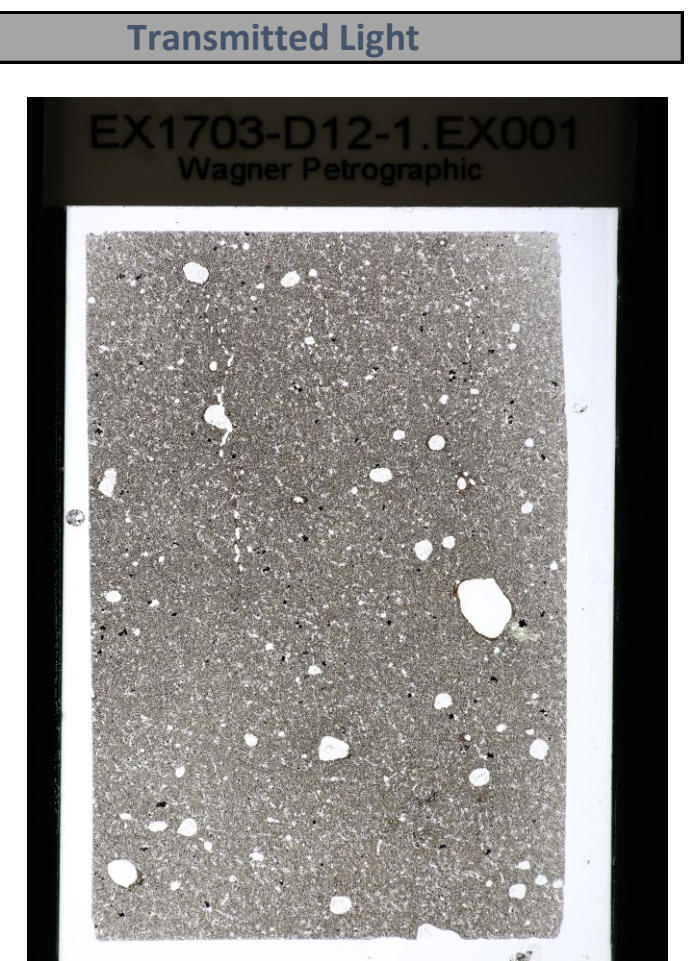
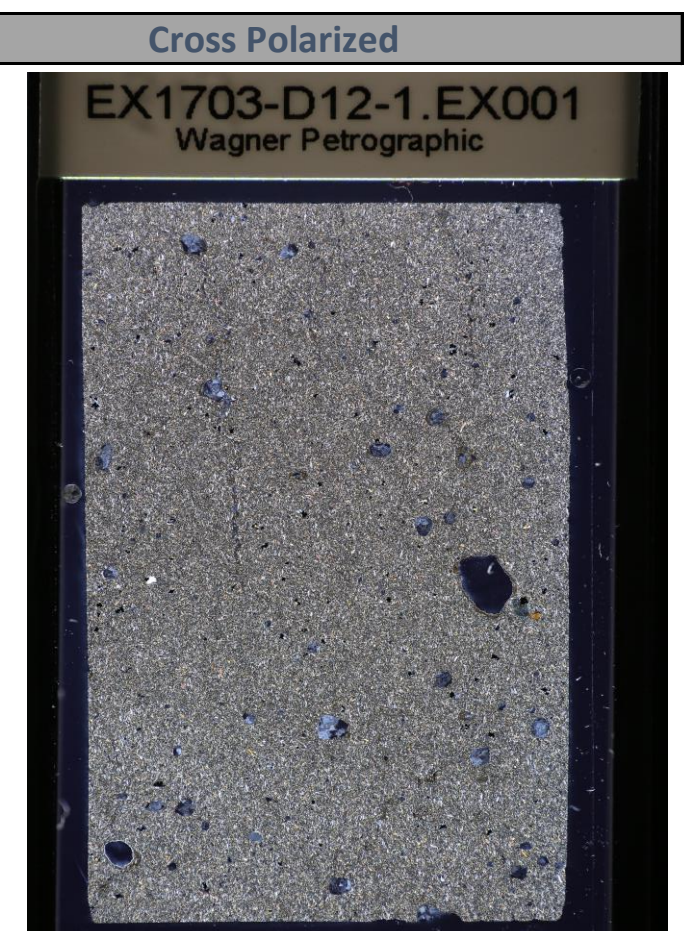


| General Information | | | |
|-------------------------------|---|-------------------------------|----|
| Sample Name (IGSN) | EX1703-D12-1 | | |
| Describer | Kevin Konrad | | |
| Sample Location | Baker Island | | |
| Lithology prefix | | | |
| General Lithology | Basalt | | |
| Texture 1 | Aphyric | | |
| Texture 2 | | | |
| Whole Rock Original (%) | 100 | Check [Ph + Vs + Gm = 100%] | OK |
| Whole Rock Present (%) | 25 | Check [Or = Pr + Rf] | OK |
| Whole Rock Replaced (%) | 75 | Check [Or = Pr + Rf] | OK |
| Total Groundmass Original (%) | 100 | Check [Gp + Gl + Ms = 100%] | OK |
| Total Groundmass Present (%) | 25 | Check [Or = Pr + Rf] | OK |
| Total Groundmass Replaced (%) | 75 | Check [Or = Pr + Rf] | OK |
| Whole Rock Summary | A very fine grained grey basalt with some large vesicles that appear zeolite infilled. A few vesicles appear unfilled. Possible a pyroxene xenocryst cluster. Thin Mn-coat | | |
| Thin Section Summary | An aphyric basalt with clinopyroxene, plagioclase and spinel within a heavily altered fine mesostasis. Contains a single Ti-augite phenocryst and a few clinopyroxene and plagioclase microcrysts (~0.25mm). Vesicles are few but large and typically contain complete zeolite infilling. | | |



| PHENOCRYSTS [Ph] | OL | PLAG | OPX | CPX | SPINEL | OTHER | VESICLES [Vs] | GRNDM [Gm] |
|------------------------------|----|------|-----|-------------------------------|--------|-------|--|------------|
| Original (%) [Or] | | | | 1 | | | 5 | 94 |
| Present (%) [Pr] | | | | 0.5 | | | 2 | 24 |
| Replaced / Filled (%) [Rf] | | | | 0.5 | | | 3 | 71 |
| Check [Or = Pr + Rf] | OK | OK | OK | OK | OK | OK | OK | OK |
| Minimum Size (mm) | | | | 0.5 | | | 0.25 | |
| Maximum Size (mm) | | | | 0.5 | | | 0.75 | |
| Modal Size (mm) | | | | 0.5 | | | 0.5 | |
| Shape | | | | Subhedral | | | Subrounded | |
| Habit | | | | | | | | |
| Zonation Type | | | | minor sector | | | | |
| Zonation Extent | | | | | | | | |
| Exsolution Type | | | | | | | | |
| Special Features | | | | | | | | |
| Comments | | | | Bluish extinction - Ti augite | | | Either full zeolite infill or palagonite rims. | |



| GROUNDMASS [Gp] | OL | PLAG | OPX | CPX | SPINEL | OTHER | GLASS [Gl] | MSTASIS [Ms] |
|------------------------------|----|-----------|-----|------|--------|-------|------------|-------------------------------|
| Original (%) [Or] | | 15 | | 5 | 5 | | | 75 |
| Present (%) [Pr] | | 13 | | 4 | 5 | | | 0 |
| Replaced / Filled (%) [Rf] | | 2 | | 1 | 0 | | | 75 |
| Check [Or = Pr + Rf] | OK | OK | OK | OK | OK | OK | OK | OK |
| Minimum Size (mm) | | 0.05 | | 0.05 | 0.05 | | | |
| Maximum Size (mm) | | 0.25 | | 0.25 | 0.25 | | | |
| Modal Size (mm) | | 0.1 | | 0.1 | 0.1 | | | |
| Shape | | elongated | | | | | | |
| Habit | | | | | | | | |
| Comments | | | | | | | | Fe-oxide alteration prevalent |