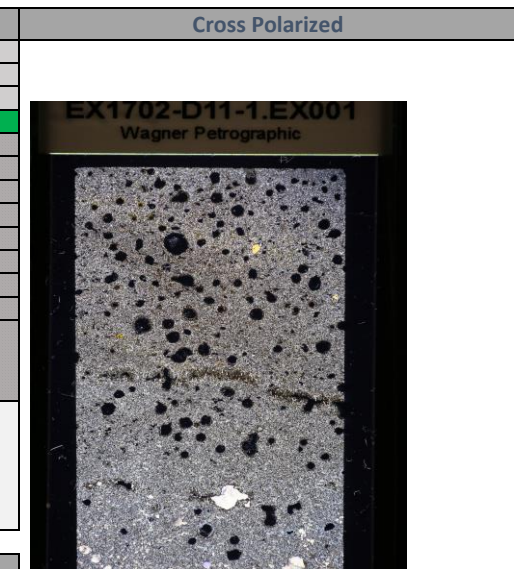


| General Information | | | |
|-------------------------------|---|-------------------------------|----|
| Sample Name (IGSN) | EX1702-D11-1 | | |
| Describer | Kevin Konrad | | |
| Sample Location | Seamount D | | |
| Lithology prefix | | | |
| General Lithology | Basalt | | |
| Texture 1 | Vesicular | | |
| Texture 2 | | | |
| Whole Rock Original (%) | 100 | Check [Ph + Vs + Gm = 100%] | OK |
| Whole Rock Present (%) | 80 | Check [Or = Pr + Rf] | OK |
| Whole Rock Replaced (%) | 20 | Check [Or = Pr + Rf] | OK |
| Total Groundmass Original (%) | 100 | Check [Gp + Gl + Ms = 100%] | OK |
| Total Groundmass Present (%) | 80 | Check [Or = Pr + Rf] | OK |
| Total Groundmass Replaced (%) | 20 | Check [Or = Pr + Rf] | OK |
| Whole Rock Summary | A greyish basalt with some rounded vesicles and regions of more or less alteration. Contains a Mn coat. No observable phenocrysts in hand sample. | | |
| Thin Section Summary | A fairly coarse grained basalt with large unfilled or calcite filled, palagonite rimmed vesicles. Sample contains one ~500um sized clinopyroxene crystal (phenocryst or xenocryst). Groundmass consists of plagioclase, clinopyroxene, iddingsite (olivine) and spinel grains. Palagonite alteration is common in the groundmass. | | |



| PHENOCRYSTS [Ph] | OL | PLAG | OPX | CPX | SPINEL | OTHER | VESICLES [Vs] | GRNDM [Gm] |
|------------------------------|----|------|-----|-----------------------------|--------|-------|---|------------|
| Original (%) [Or] | | | | 1 | | | 15 | 84 |
| Present (%) [Pr] | | | | 1 | | | 10 | 67 |
| Replaced / Filled (%) [Rf] | | | | 0 | | | 5 | 17 |
| 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 | | | | anhedral | | | rounded | |
| Habit | | | | | | | | |
| Zonation Type | | | | | | | | |
| Zonation Extent | | | | | | | | |
| Exsolution Type | | | | | | | | |
| Special Features | | | | | | | | |
| Comments | | | | Single grain in the section | | | Some calcite filled, some unfilled. Almost all have palagonite rims | |



| GROUNDMASS [Gp] | OL | PLAG | OPX | CPX | SPINEL | OTHER | GLASS [Gl] | MSTASIS [Ms] |
|------------------------------|----------------|-----------|-----|-----------|-----------|-------|------------|----------------------------|
| Original (%) [Or] | 20 | 20 | | 10 | 10 | | | 40 |
| Present (%) [Pr] | 0 | 19 | | 8 | 10 | | | 0 |
| Replaced / Filled (%) [Rf] | | 1 | | 2 | 0 | | | 40 |
| Check [Or = Pr + Rf] | OK | OK | OK | OK | OK | OK | OK | OK |
| Minimum Size (mm) | 0.05 | 0.05 | | 0.05 | 0.05 | | | |
| Maximum Size (mm) | 0.1 | 0.25 | | 0.1 | 0.1 | | | |
| Modal Size (mm) | 0.07 | 0.1 | | 0.075 | 0.07 | | | |
| Shape | anhedral | Subhedral | | subhedral | subhedral | | | |
| Habit | | Elongated | | | | | | |
| Comments | All iddingsite | | | | | | | Mostly clay and palagonite |