

| General Information | | | |
|-------------------------------|---|-------------------------------|----|
| Sample Name (IGSN) | EX1605L1-D15-1 | | |
| Describer | Kevin Konrad | | |
| Sample Location | Enrique Guyot | | |
| Lithology prefix | | | |
| General Lithology | Basalt? | | |
| Texture 1 | Highly altered | | |
| Texture 2 | | | |
| Whole Rock Original (%) | 100 | Check [Ph + Vs + Gm = 100%] | OK |
| Whole Rock Present (%) | 10 | Check [Or = Pr + Rf] | OK |
| Whole Rock Replaced (%) | 90 | Check [Or = Pr + Rf] | OK |
| Total Groundmass Original (%) | 100 | Check [Gp + Gl + Ms = 100%] | OK |
| Total Groundmass Present (%) | 10 | Check [Or = Pr + Rf] | OK |
| Total Groundmass Replaced (%) | 90 | Check [Or = Pr + Rf] | OK |
| Whole Rock Summary | An unusual igneous rock that varies in color from blue to grey to greenish sections. Appears aphyric and contains a distinctly recrystallized reddish rim. Possibly a hydrothermally altered hyaloclastite? | | |
| Thin Section Summary | A igneous rock (basalt most likely) that consists of plagioclase grains in a grey matrix of Fe-hydroxide alteration. The plagioclase grains vary in density throughout but are almost entirely consistant of thin laths. Three coarser (0.15mm) plagioclase grains exist in the section. Appears to be a very altered basalt. One large opaque elongated grain(?) is present within the section. Not sure what it is. | | |



| PHENOCRYSTS [Ph] | OL | PLAG | OPX | CPX | SPINEL | OTHER | VESICLES [Vs] | GRNDM [Gm] | Cross Polarized |
|------------------------------|----|------|-----|-----|--------|-------|--|------------|-----------------|
| Original (%) [Or] | | | | | | | 5 | 95 | |
| Present (%) [Pr] | | | | | | | 4 | 10 | |
| Replaced / Filled (%) [Rf] | | | | | | | 1 | 86 | |
| Check [Or = Pr + Rf] | OK | OK | OK | OK | OK | OK | OK | OK | |
| Minimum Size (mm) | | | | | | | 0.1 | | |
| Maximum Size (mm) | | | | | | | 0.2 | | |
| Modal Size (mm) | | | | | | | 0.1 | | |
| Shape | | | | | | | irregular | | |
| Habit | | | | | | | | | |
| Zonation Type | | | | | | | | | |
| Zonation Extent | | | | | | | | | |
| Exsolution Type | | | | | | | | | |
| Special Features | | | | | | | | | |
| Comments | | | | | | | Some coating with a orange alteration product. | | |



| GROUNDMASS [Gp] | OL | PLAG | OPX | CPX | SPINEL | OTHER | GLASS [Gl] | MSTASIS [Ms] |
|------------------------------|----|-------------------------------------|-----|-----|--------|-------|------------|---------------------------|
| Original (%) [Or] | | 40 | | | | | | 60 |
| Present (%) [Pr] | | 20 | | | | | | 0 |
| Replaced / Filled (%) [Rf] | | 20 | | | | | | 60 |
| Check [Or = Pr + Rf] | OK | OK | OK | OK | OK | OK | OK | OK |
| Minimum Size (mm) | | 0.01 | | | | | | |
| Maximum Size (mm) | | 0.15 | | | | | | |
| Modal Size (mm) | | 0.02 | | | | | | |
| Shape | | subhedral | | | | | | |
| Habit | | laths | | | | | | |
| Comments | | Vary in density and size throughout | | | | | | Seems completely altered. |