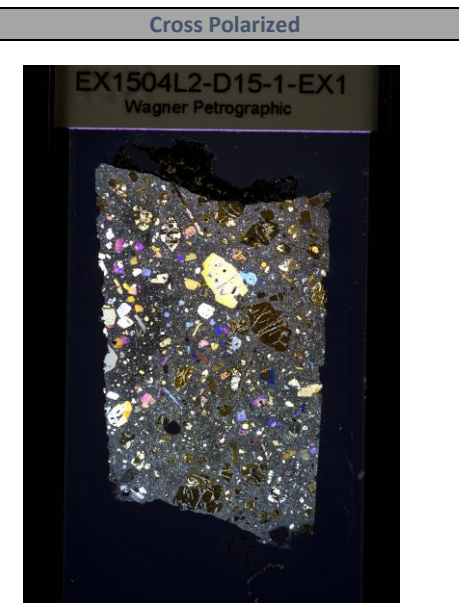


| General Information | | | |
|-------------------------------|--|-------------------------------|----|
| Sample Name (IGSN) | EX1504L2-D15-1 | | |
| Describer | Kevin Konrad | | |
| Sample Location | North Maro Ridge | | |
| Lithology prefix | picrite | | |
| General Lithology | basalt | | |
| Texture 1 | porphyritic | | |
| Texture 2 | | | |
| Whole Rock Original (%) | 100 | Check [Ph + Vs + Gm = 100%] | OK |
| Whole Rock Present (%) | 90 | Check [Or = Pr + Rf] | OK |
| Whole Rock Replaced (%) | 10 | Check [Or = Pr + Rf] | OK |
| Total Groundmass Original (%) | 100 | Check [Gp + Gl + Ms = 100%] | OK |
| Total Groundmass Present (%) | 90 | Check [Or = Pr + Rf] | OK |
| Total Groundmass Replaced (%) | 10 | Check [Or = Pr + Rf] | OK |
| Whole Rock Summary | A olivine rich basalt. Olivine are recrystallized in a zone around fractures, however fresh olivine exists away from fractures. Groundmass is fine grained. | | |
| Thin Section Summary | An olivine rich basalt with a groundmass composed of fine pyroxene and magnetite with some microcrystic plagioclase. Olivine range from recrystallized (with mixed iddingsite and serpentine) to completely unaltered. Some spinel inclusions observed within olivine. | | |



| PHENOCRYSTS [Ph] | OL | PLAG | OPX | CPX | SPINEL | OTHER | VESICLES [Vs] | GRNDM [Gm] |
|------------------------------|-------------------------------|------|-----|-----|--------|-------|---------------|------------|
| Original (%) [Or] | 40 | | | | | | | 60 |
| Present (%) [Pr] | 25 | | | | | | | 54 |
| Replaced / Filled (%) [Rf] | 15 | | | | | | | 6 |
| Check [Or = Pr + Rf] | OK | OK | OK | OK | OK | OK | OK | OK |
| Minimum Size (mm) | 0.25 | | | | | | | |
| Maximum Size (mm) | 4 | | | | | | | |
| Modal Size (mm) | 0.75 | | | | | | | |
| Shape | sub-euhedral | | | | | | | |
| Habit | | | | | | | | |
| Zonation Type | | | | | | | | |
| Zonation Extent | | | | | | | | |
| Exsolution Type | | | | | | | | |
| Special Features | Some iddingsite & serpentine. | | | | | | | |
| Comments | Spinel inclusions | | | | | | | |



| GROUNDMASS [Gp] | OL | PLAG | OPX | CPX | SPINEL | OTHER | GLASS [Gl] | MSTASIS [Ms] |
|------------------------------|----|--|-----|-------------------------------|--|-------|------------|--------------|
| Original (%) [Or] | | 15 | | 15 | 70 | | | |
| Present (%) [Pr] | | 15 | | 15 | 70 | | | |
| Replaced / Filled (%) [Rf] | | 0 | | 0 | 0 | | | |
| Check [Or = Pr + Rf] | OK | OK | OK | OK | OK | OK | OK | OK |
| Minimum Size (mm) | | 0.02 | | 0.002 | | | | |
| Maximum Size (mm) | | 0.1 | | 0.005 | | | | |
| Modal Size (mm) | | 0.05 | | 0.003 | | | | |
| Shape | | lath | | | | | | |
| Habit | | | | | | | | |
| Comments | | Can be microcrystic to possible phenocrystic in size | | Tiny, may be olivine in there | Likely magnetite but makes up almost all the groundmass. | | | |