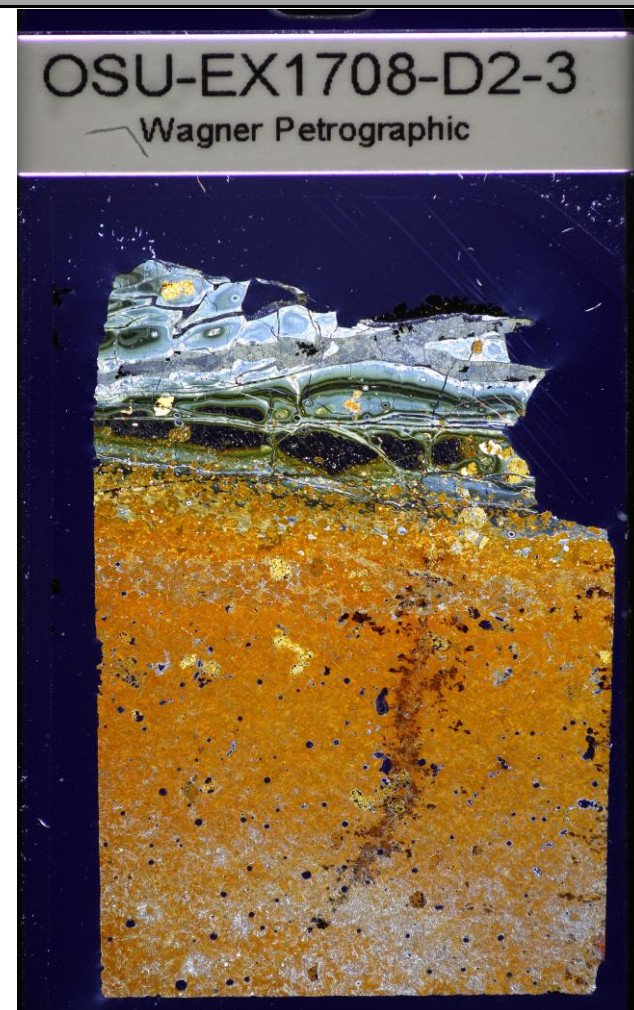


| General Information           |  |                               |    |
|-------------------------------|--|-------------------------------|----|
| Sample Name (IGSN)            | EX1708-D2-3  |                               |    |
| Describer                     | Kevin Konrad   |                               |    |
| Sample Location               | Beach Ridge  |                               |    |
| Lithology prefix              | Olivine  |                               |    |
| General Lithology             | Basalt   |                               |    |
| Texture 1                     | Glass bearing  |                               |    |
| Texture 2                     | Highly oxidized  |                               |    |
| 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 olivine-basalt that has significant Fe-oxide/clay recrystallization towards the rims. The core of the basalt has a purple-grey color and is still cryptocrystalline. The olivine phenocrysts are all recrystallized to iddingsite. A few potential amphibole phenocrysts are observed. Samples rind contains varying degrees of altered glass with some small amounts of preserved glass available. Thin FeMn coat  |                               |    |
| Thin Section Summary          | The thin section covers a traverse from the altered glass rind into the oxidized basalt. The sample is an olivine basalt with a Fe-oxide recrystallized glassy groundmass. The glass rind has some palagonite recrystallization but some regions are preserved. Most olivine is recrystallized to iddingsite and the grains contain common spinel inclusions. A few shards/portions of olivine are preserved in the glass. The deeper section of the thin section contains some very fine (<0.1mm) plagioclase grains. |                               |    |



| PHENOCRYSTS [Ph]             | OL   | PLAG | OPX | CPX | SPINEL | OTHER | VESICLES [Vs] | GRNDM [Gm] |
|------------------------------|--|------|-----|-----|--------|-------|---------------|------------|
| Original (%) [ Or ]          | 5  |      |     |     |        |       |               |            |
| Present (%) [ Pr ]           | 1  |      |     |     |        |       |               |            |
| Replaced / Filled (%) [ Rf ] | 4  |      |     |     |        |       |               |            |
| Check [ Or = Pr + Rf ]       | OK   | OK   | OK  | OK  | OK     | OK    | OK            | OK         |
| Minimum Size (mm)            | 0.25   |      |     |     |        |       |               |            |
| Maximum Size (mm)            | 0.75   |      |     |     |        |       |               |            |
| Modal Size (mm)              | 0.5  |      |     |     |        |       |               |            |
| Shape                        | subhedral  |      |     |     |        |       |               |            |
| Habit                        |  |      |     |     |        |       |               |            |
| Zonation Type                |  |      |     |     |        |       |               |            |
| Zonation Extent              |  |      |     |     |        |       |               |            |
| Exsolution Type              |  |      |     |     |        |       |               |            |
| Special Features             |  |      |     |     |        |       |               |            |
| Comments                     | Recrystallized to iddingsite. Spinel inclusions common. Some preserved crystals in glass |      |     |     |        |       |               |            |



| GROUNDMASS [Gp]              | OL | PLAG   | OPX | CPX | SPINEL | OTHER | GLASS [Gl]  | MSTASIS [Ms] |
|------------------------------|----|--|-----|-----|--------|-------|---|--------------|
| Original (%) [ Or ]          |    | 10   |     |     |        |       | 90  |              |
| Present (%) [ Pr ]           |    | 5  |     |     |        |       | 10  |              |
| Replaced / Filled (%) [ Rf ] |    | 5  |     |     |        |       | 80  |              |
| Check [ Or = Pr + Rf ]       | OK | OK   | OK  | OK  | OK     | OK    | OK  | OK           |
| Minimum Size (mm)            |    | 0.01   |     |     |        |       |   |              |
| Maximum Size (mm)            |    | 0.05   |     |     |        |       |   |              |
| Modal Size (mm)              |    | 0.01   |     |     |        |       |   |              |
| Shape                        |    | subhedral  |     |     |        |       |   |              |
| Habit                        |    |  |     |     |        |       |   |              |
| Comments                     |    | Coarser and more common towards the sample core. |     |     |        |       | Mostly palagonite or Fe-oxide recrystallized. Some lenses of preserved glass exist however. |              |