

| General Information           |   |                               |    |
|-------------------------------|---|-------------------------------|----|
| Sample Name (IGSN)            | EX1504L2-D10-1  |                               |    |
| Describer                     | Kevin Konrad  |                               |    |
| Sample Location               | Salmon Bank Ridge   |                               |    |
| Lithology prefix              |   |                               |    |
| General Lithology             | Basalt  |                               |    |
| Texture 1                     | Vesicular   |                               |    |
| Texture 2                     | Aphanitic   |                               |    |
| 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 highly vesicular and altered basalt. Contains altered glass rim which gradiates inward into a slightly less altered and vesicular core. Contains a thin coating of Mn. Some iddingsite grains are present (1%). |                               |    |
| Thin Section Summary          | A aphanitic basalt with ~0.5mm vesicles. The groundmass consists primarily of sericite altered plagioclase. Some iddingsite and clinopyroxene are found within the groundmass, rest is glass.                     |                               |    |

## Whole Rock

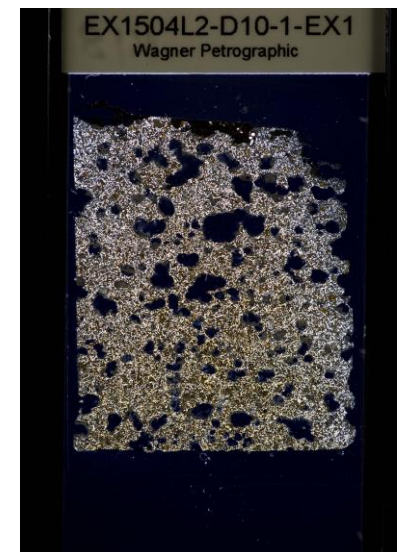


## Transmitted Light



| PHENOCRYSTS [Ph]             | OL | PLAG | OPX | CPX | SPINEL | OTHER | VESICLES [Vs]                         | GRNDM [Gm] |
|------------------------------|----|------|-----|-----|--------|-------|---------------------------------------|------------|
| Original (%) [ Or ]          |    |      |     |     |        |       | 40                                    | 60         |
| Present (%) [ Pr ]           |    |      |     |     |        |       | 40                                    | 48         |
| Replaced / Filled (%) [ Rf ] |    |      |     |     |        |       | 0                                     | 12         |
| Check [ Or = Pr + Rf ]       | OK | OK   | OK  | OK  | OK     | OK    | OK                                    | OK         |
| Minimum Size (mm)            |    |      |     |     |        |       | 0.25                                  |            |
| Maximum Size (mm)            |    |      |     |     |        |       | 0.5                                   |            |
| Modal Size (mm)              |    |      |     |     |        |       | 0.4                                   |            |
| Shape                        |    |      |     |     |        |       | circular                              |            |
| Habit                        |    |      |     |     |        |       |                                       |            |
| Zonation Type                |    |      |     |     |        |       |                                       |            |
| Zonation Extent              |    |      |     |     |        |       |                                       |            |
| Exsolution Type              |    |      |     |     |        |       |                                       |            |
| Special Features             |    |      |     |     |        |       |                                       |            |
| Comments                     |    |      |     |     |        |       | Varies blobular to circular in shape. |            |

## Cross Polarized



| GROUNDMASS [Gp]              | OL                     | PLAG  | OPX | CPX       | SPINEL | OTHER | GLASS [Gl]                       | MSTASIS [Ms] |
|------------------------------|------------------------|---|-----|-----------|--------|-------|----------------------------------|--------------|
| Original (%) [ Or ]          | 10                     | 50  |     | 5         |        |       | 35                               |              |
| Present (%) [ Pr ]           | 0                      | 20  |     | 5         |        |       | 0                                |              |
| Replaced / Filled (%) [ Rf ] | 10                     | 30  |     | 0         |        |       | 35                               |              |
| Check [ Or = Pr + Rf ]       | OK                     | OK  | OK  | OK        | OK     | OK    | OK                               | OK           |
| Minimum Size (mm)            | 0.002                  | 0.02  |     | 0.002     |        |       |                                  |              |
| Maximum Size (mm)            | 0.003                  | 0.05  |     | 0.003     |        |       |                                  |              |
| Modal Size (mm)              | 0.002                  | 0.03  |     | 0.002     |        |       |                                  |              |
| Shape                        | anhedral               | subhedral   |     | subhedral |        |       |                                  |              |
| Habit                        |                        |   |     |           |        |       |                                  |              |
| Comments                     | Iddingsite replacement | Mostly sericite replacement. Some areas don't show any alteration |     |           |        |       | Not sure how much is alteration. |              |