

# Appendix Materials

DEPOSIT ITEM AM-04-067

## Plagioclase from planetary basalts: Chemical signatures that reflect planetary volatile budgets, oxygen fugacity, and styles of igneous differentiation

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(APPENDIX TABLE 1 AND 2 ARE AVAILABLE AS "EXCELL" FILES, CLICK BACK ON WEB SITE)

Figure A-1

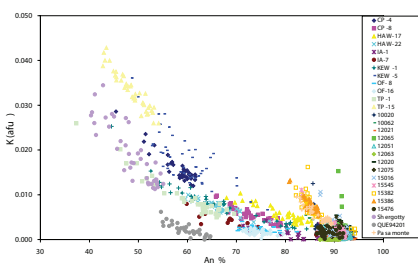


Figure A-2

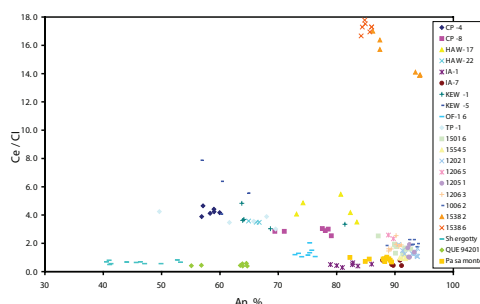


Figure A-4

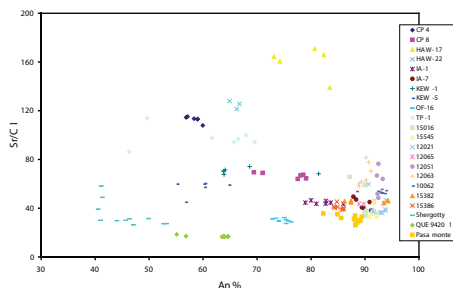


Figure A-3

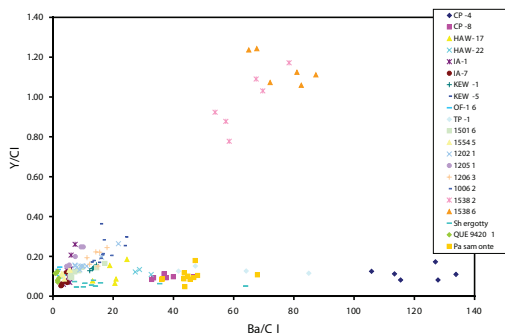
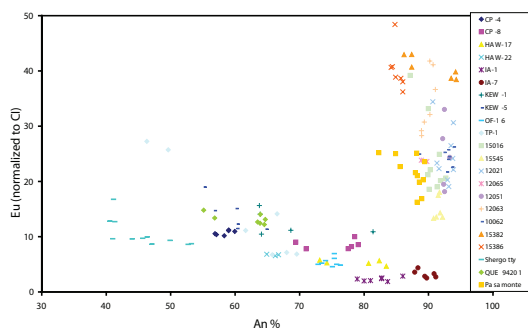


Figure A-5



APPENDIX FIGURE 1. K atoms per formula unit (afu) vs. An% for plagioclase analyses from each thin section from the different basalt suites. KEW = Keweenawan, OF = Ocean Floor, IA = Island Arc, CP = Columbia Plateau, HAW = Hawaiian, and TP = Taos Plateau. Lunar samples are listed by thin section number. Mars samples are Shergotty and QUE 94201, and the 4 Vesta sample is Pasamonte.

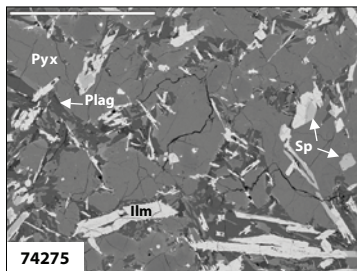
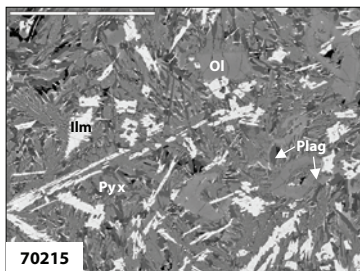
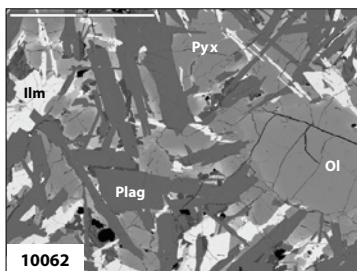
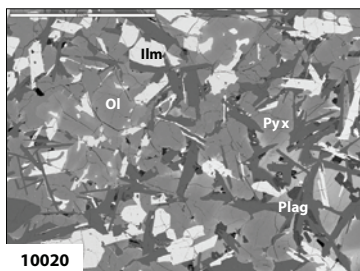
APPENDIX FIGURE 2. Ce (normalized to CI chondrite) vs. An% in plagioclase from each sample of the different basalt suites. See Figure B-1 {auth: WHAT? this doesn't make sense} caption for explanation of abbreviations. Data points are SIMS analyses.

APPENDIX FIGURE 3. Y vs. Ba (both CI normalized) for plagioclase from specific samples of the different basalt suites.

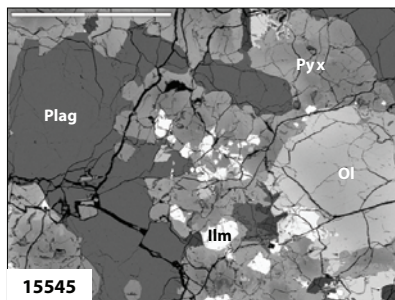
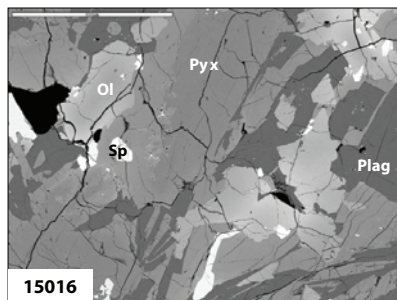
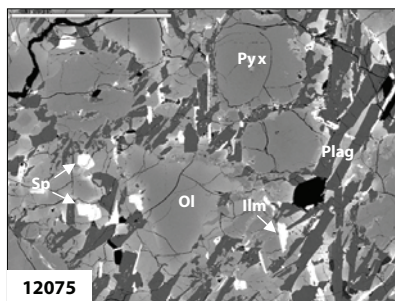
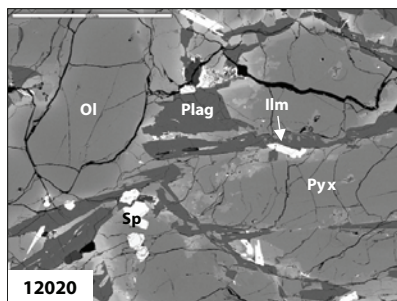
APPENDIX FIGURE 4. Sr (CI normalized) vs. An% for plagioclase grains from all the planetary basalt samples.

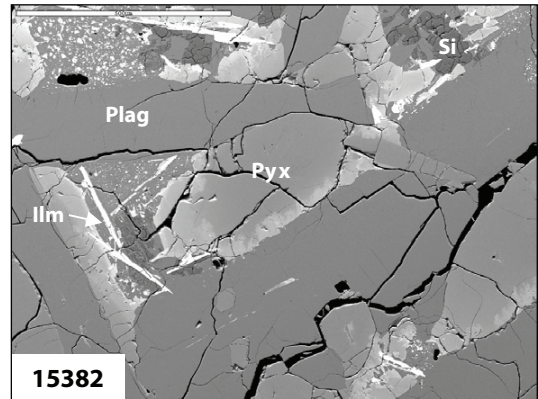
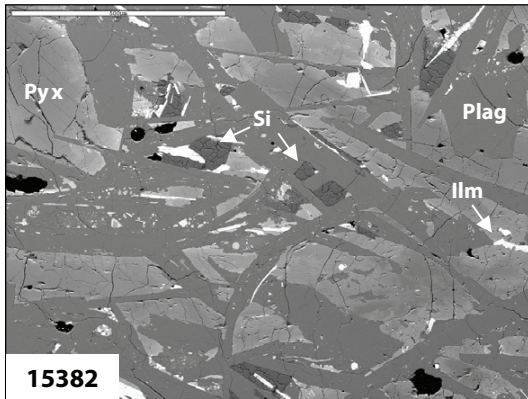
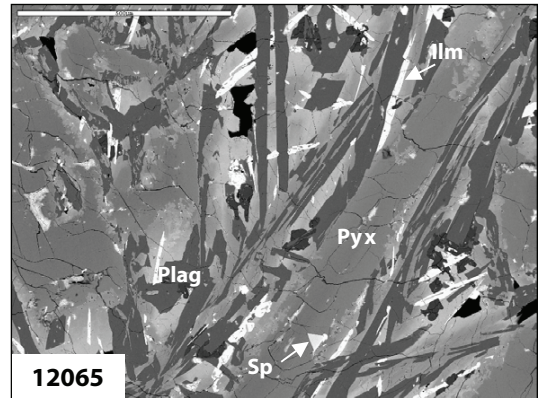
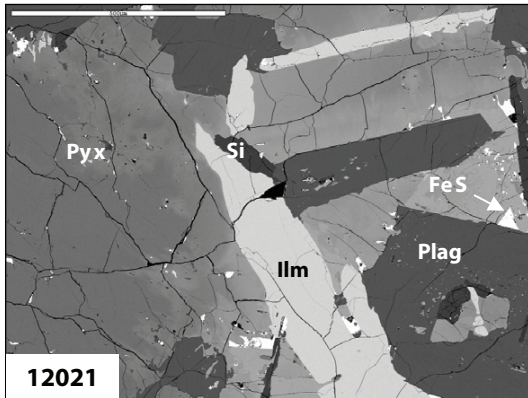
APPENDIX FIGURE 5. Eu (CI normalized) vs. An% for plagioclase grains from all the planetary basalt samples.

**Appendix A**-Back-Scattered Electron images of planetary basalts

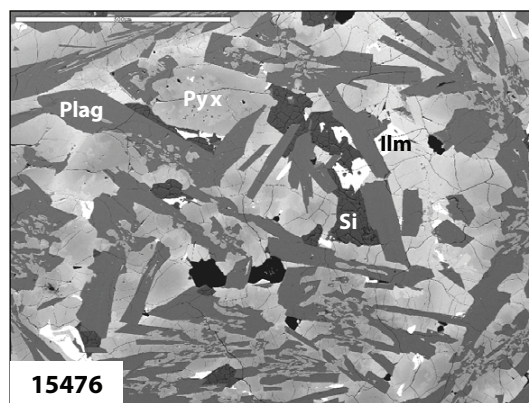
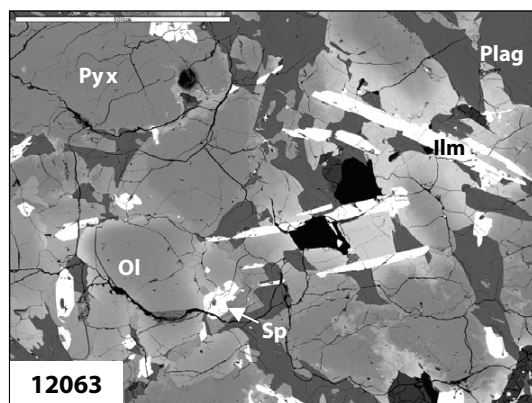
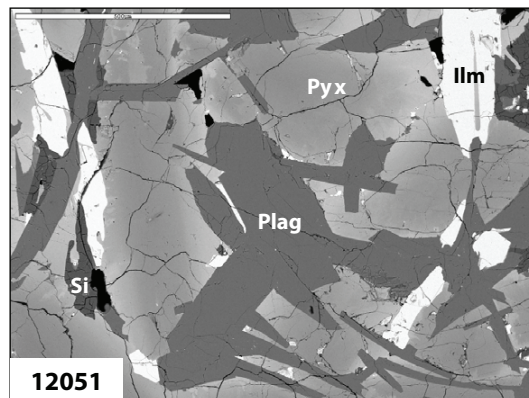
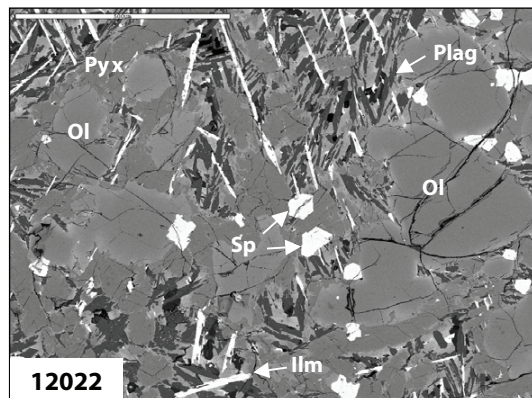


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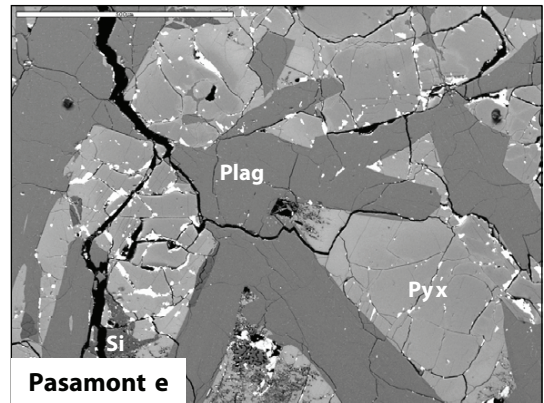
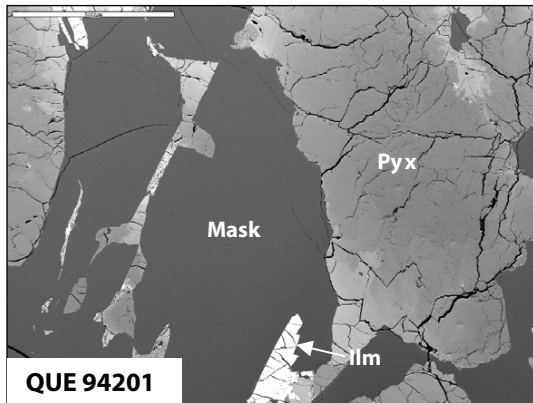
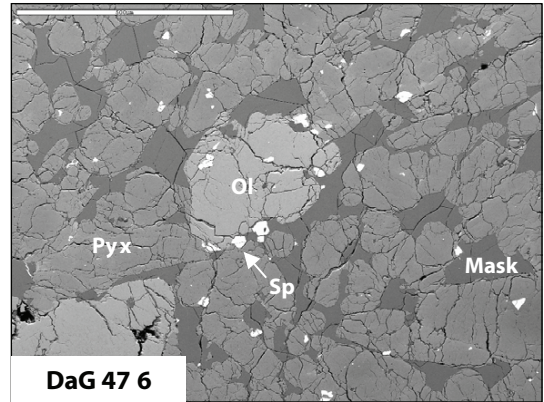
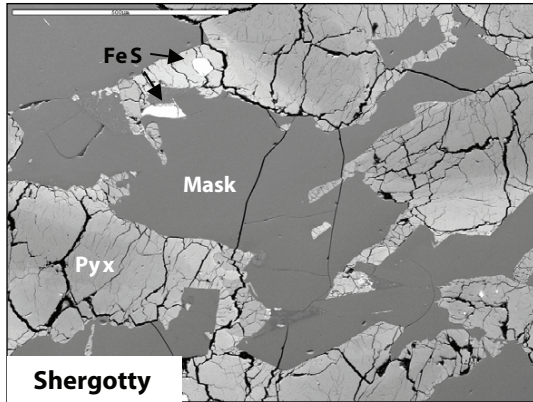


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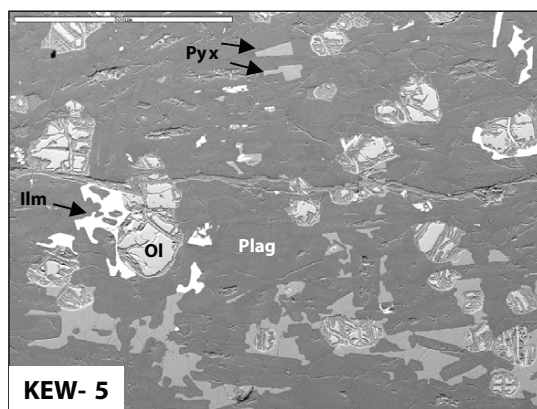
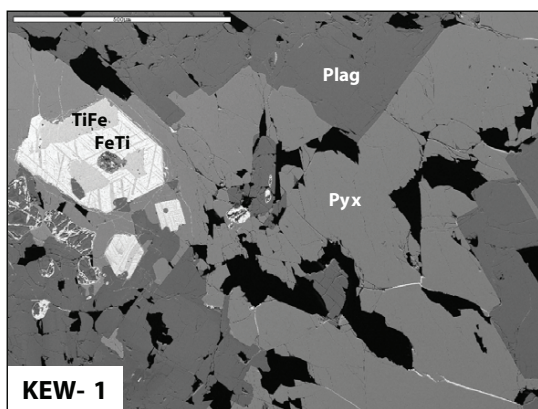
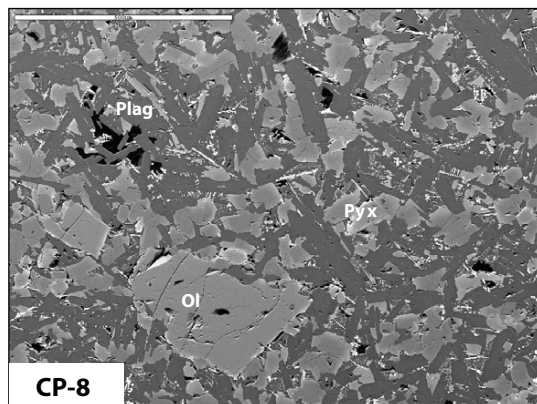
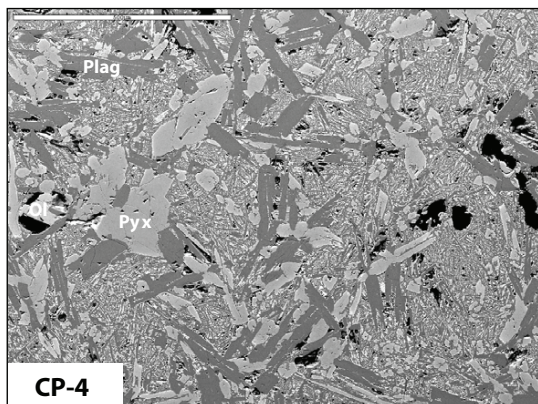
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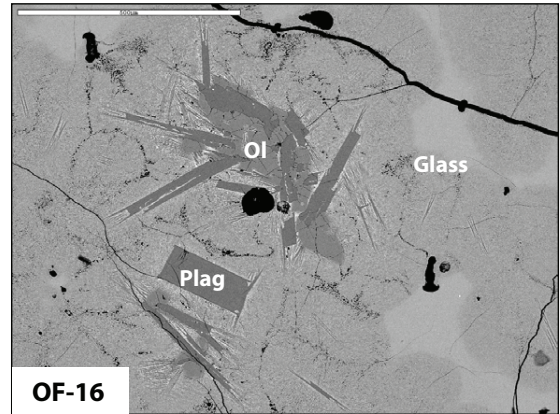
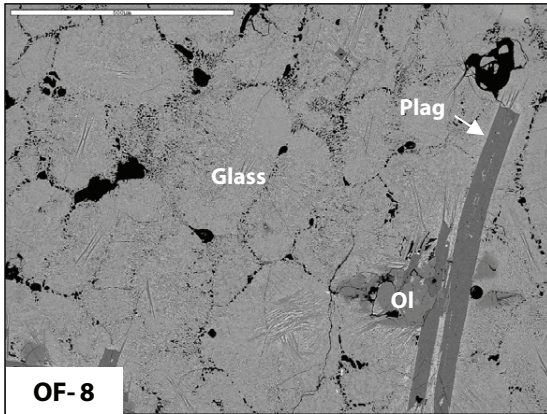
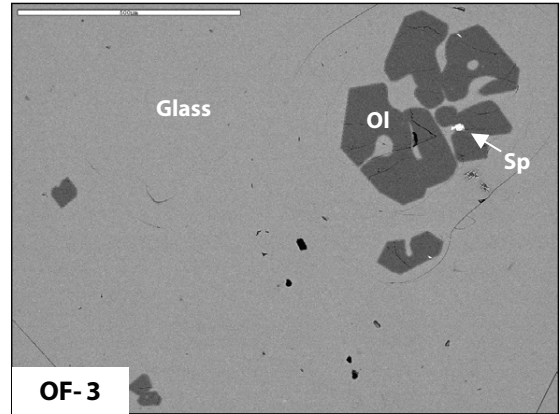
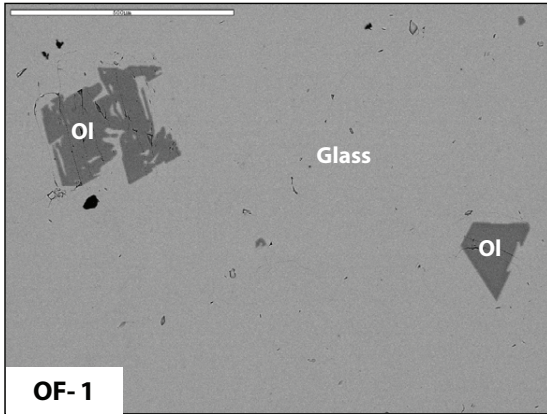


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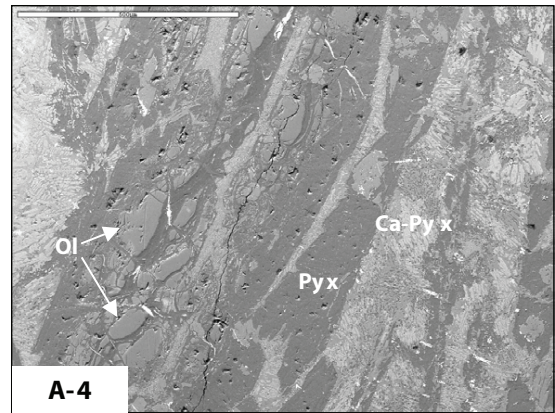
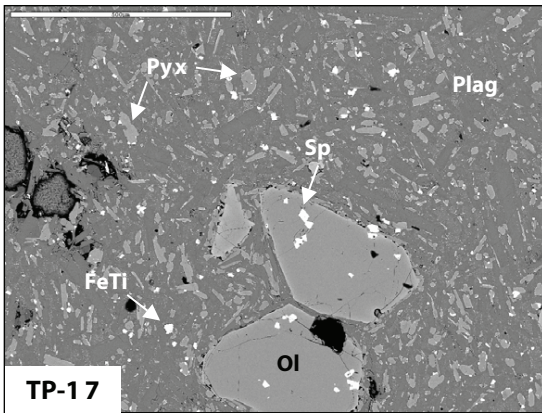
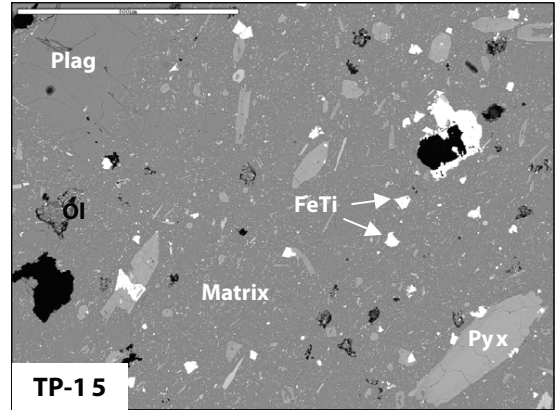
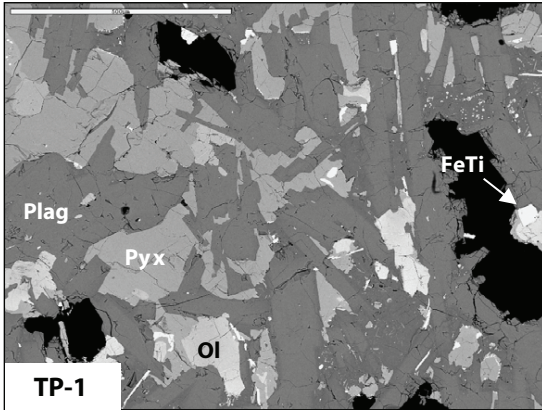


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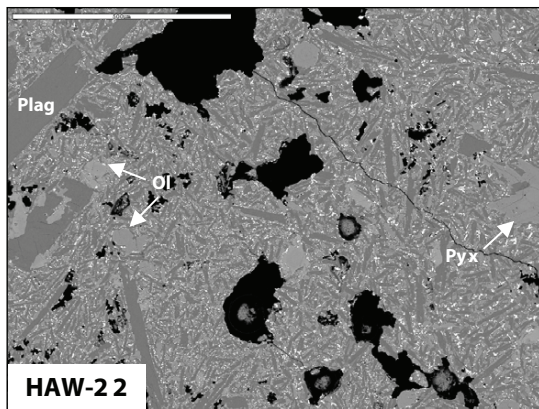
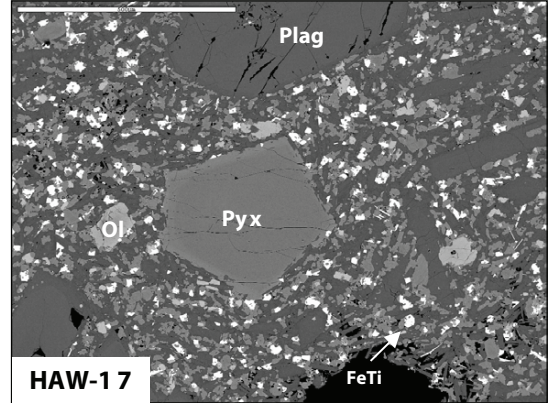
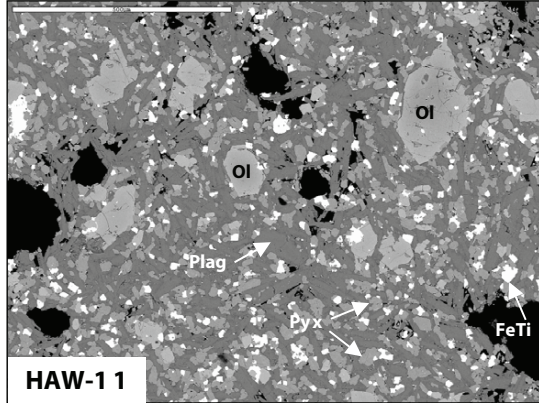
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