Description of thin sections from geothermal borehole

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| Sample | Mineralogy | Texture  | Description |
| 72833(Fig. 2A) | QuartzFeldsparsIllteChlorite | Hemicrystalline micro-structure.Aphanitic matrix | Rhyolite with undulating quartz and feldspars phenocrysts in an aphanitic matrix. Magmatic quarzt with micro-cracks filled with microcrystals of illite. Illite is coated around feldspars and quarzt. Growth of green chlorite on biotite is also found. Microcrystals of illite grow in a glassy groundmass  |
| 72836(Fig. 2B) | CarbonateFe-oxidesChloriteQuartzMicaClay Mineral | Aphanitic matrix | The association of Fe-oxides, carbonate, chlorite, and other clay minerals appears apparently. The Fe -chlorite appeared as sheets, small prismatic sub-idiomorphic flakes, imperfect hexagonal and sub-idiomorphic to idiomorphic crystals of well-ordered chlorite. Fe,Mg-chlorite also presented sheets grew on biotite (mica). |
| 72836(Fig. 2C) | Muscovite, Micro Quartz,IlliteChlorite | Holohyaline (glassy) to microlitic matrix | Rhyolite showing porphyritic fluidal texture and composed of muscovite, and the cryptogrytalline (microcrystalline) groundmass is composed of microquartz, illite and Fe-chlorite |
| 72838(Fig. 2D) | QuartzFeldsparsSericitized FeldsparsMicaEpidote | Aphanitic matrix | Sub-idiomorphic magmatic mica (biotite) and fresh plagioclas are observed together with sericitizatized feldspars, as well as growth of microscrytals of illite on feldspars. Fine pale yellow epidote is also found. |
| 72852(Fig 2E) | GlassyIlliteChloriteMicro Quartz | Holohyaline (glassy) to microlitic matrix | Development of vitreous-flow structures surrounded by recrystallized quartz and illite and chlorite crystals |
| 72852(Fig 2F) | FeldsparsIlliteEpidote | Glassy matrix | Quartz and feldspars (plagioclase) were coated by micro-crystallites of mica in a transformed relictic glass matrix to microcrystals of illite, chlorite, and quartz |
| 72853(Fig 2G) | FeldsparsQuartzIlliteChlorite | Phenocrysts with glassy matrix | The glassy matrix was transformed to microcrytals of illite, chlorite and quartz, new growth illite coated quarzt, and feldspars |
| 72854(Fig 2H) | BiotiteCarbonateQuartzIllite, MuscoviteHematite | Hemicrystalline micro-structure with glassy matrix | Fine grained porphyric rhyolite with crystals in a glassy groundmass. The glassy matrix was transformed to illite and biotite transformed to chlorite but fresh mica is found as well as hematite and carbonate minerals. |