**LAMPIRAN ANALISIS PETROGRAFI**

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| **Lokasi** |  | | | | | |
| **Kode Conto** | | **HZPB-955-3295** | **Nama Batuan** | **Diorit** | **Klasifikasi** | **Streckeisen (1976)** |
| **Deskripsi Petrografi:**  Di dalam sayatan tipis batuan menunjukkan tekstur faneritik, derajat kristalisasi holokristalin, bentuk kristal euhedral-anhedral, kemas equigranular,hubungan antar kristal panidimorfik-hipidiomorfik, terdiri dari mineral utama kuarsa, plagioklas, mineral tambahan mineral opak dan mineral alterasi anhidrit, serisit dan kuarsa sekunder. Anhidrit dengan relief sedang, interlocking, tabular, bias rangkap tinggi, hijau-merah muda, serisit berwarna hijau kecokelatan, berukuran halus, massif, kemungkinan hasil ubahan biotit.  **Kuarsa:** colourless, relief rendah, pleokroisme lemah, interlocking, terdapat juga sebagai veinlet, indeks bias nmineral > nmedium, warna interferensi abu-abu orde 2, berukuran hingga 0,31 mm  **Plagioklas:** colourless, relief rendah, pleokroisme lemah, hadir dalam jumlah sedikit, pemadaman miring, indeks bias nmineral > nmedium, warna intereferensi abu-abu orde 2, berukuran 0,3 mm.  **Anhidrit:** colourless, tabular, euhedral-subhedral, relief sedang, pleokroisme sedang, pemadaman paralel, indeks bias n min>n med, warna interferensi hijau orde 3, berukuran 0,89 mm.  **Serisit:** hijau kecokelatan, relief sedang, pleokroisme sedang, belahan 1 arah, warna interferensi orde 2, indeks bias nmineral > nmedium,  agregat halus, berukuran 0,1 mm  **Mineral opak:** hitam, isotrop, kedap cahaya, relief tinggi, pleokroisme lemah, indeks bias nmineral > nmedium, berukuran 0,17 mm.  **Tipe Alterasi Ser-Anh** | | | | | | |
| **Komposisi (% volume):** Kuarsa (46), Plagioklas (5), Anhidrit (19), Serisit (25), Mineral opak (5) | | | | | | |
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| **Fotomikrograf** : Anhidrit dengan relif sedang, dan warna interferensi tinggi (E,4), kuarsa (A,4), mineral opak granular (B,-9) | | | | | | |

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| **Fotomikrograf** : Serisit berwarna hijau kecokelatan berukuran halus (C,5), kuarsa berupa veinlet (E,5) |
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| **Fotomikrograf :** Anhidrit berwarna hijau kekuningan (C,5), kuarsa (I,2) |

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| **Lokasi** |  | | | | | |
| **Kode Conto** | | **MGI PB 953-3220** | **Nama Batuan** | **Diorit** | **Klasifikasi** | **Streckeisen (1976)** |
| **Deskripsi Petrografi:**  Di dalam sayatan tipis batuan menunjukkan tekstur faneritik, derajat kristalisasi holokristalin, bentuk kristal euhedral-subhedral, kemas equigranular,hubungan antar kristal panidimorfik-hipidiomorfik, terdiri dari mineral utama kuarsa, plagioklas, mineral tambahan biotit, mineral opak dan mineral alterasi illit, dan serisit. Serisit berwarna hijau kecokelatan, berukuran halus, mengubah bitoti, kuarsa interlocking, drusty, dan terdapat pula berupa veinlet, mineral opak berupa vein berkembang dengan baik.  **Kuarsa:** colourless, relief rendah, pleokroisme lemah, interlocking, terdapat juga sebagai veinlet, indeks bias n min>n med, warna interferensi abu-abu orde 2, berukuran hingga 0,5 mm  **Plagioklas:** colourless, relief rendah, pleokroisme lemah, hadir dalam jumlah sedikit, sebagianterubah menjadi illite, pemadaman miring, indeks bias n min>n med, warna intereferensi abu-abu orde 2, berukuran 0,3 mm.  **Biotit:** hijau kecokelatan, relief sedang, pleokroisme sedang, subhedral-anhedral, terubah sebagian menjadi serisit, berukuran hingga 0,3 mm  **Serisit:** hijau kecokelatan, relief sedang, pleokroisme sedang, belahan 1 arah, warna interferensi orde 2, agregat halus, berukuran 0,1 mm  **Illt:** krem keputihan, relief sedang, pleokroisme lemah, *flakey like*, mengubah plagioklas, berukuran <0,1 mm.  **Mineral opak:** hitam, isotrop, kedap cahaya, relief tinggi, pleokroisme lemah, indeks bias n min>n med, berukuran 1, 5 mm.  **Tipe Alterasi Ser-Ill** | | | | | | |
| **Komposisi (% volume):** Kuarsa (48), plagioklas (8), biotit (11), serisit (5), illite (4), mineral opak (24) | | | | | | |
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| **Fotomikrograf** : Mineral opak anhedrak dengan tekstur vein (F,5), Biotit (D,4) | | | | | | |

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| **Fotomikrograf** : Plagioklas terubah kuat menjadi mineral lempung/illite (F,4), biotit berwarna hijau kecokelatan, sebagain mulai terubah mnejadi serisit (A,-9) |
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| **Fotomikrograf :** Plagioklas terubah menjadi illit (C,3), biotit berukuran sedang berwarna cokelat kehijauan (H,-2), kuarsa sekunder (F,5) |

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| **Lokasi** |  | | | | | |
| **Kode Conto** | | **STK MGI** | **Nama Batuan** | **Diorit** | **Klasifikasi** | **Streckeisen (1976)** |
| **Deskripsi Petrografi:**  Di dalam sayatan tipis batuan menunjukkan tekstur faneritik, derajat kristalisasi holokristalin, bentuk kristal euhedral-subhedral, kemas equigranular,hubungan antar kristal panidimorfik-hipidiomorfik, terdiri dari mineral utama kuarsa, plagioklas, mineral tambahan mineral opak dan biotit sedangakan mineral sekunder berupa anhidrit, serisit dan mineral lempung (illit). Anhidrit muncul dalam jumlah yang tidak terlalu signifikan, serisit dan illit hadir dalam jumlah yang cukup banyak. Serisiti muncul dalam ukuran yang halus, illite mengubah plagioklas.  **Kuarsa:** colourless, relief rendah, pleokroisme lemah, interlocking, terdapat juga sebagai veinlet, indeks bias n min>n med, warna interferensi abu-abu orde 2, berukuran hingga 0,31 mm  **Plagioklas:** colourless, relief rendah, pleokroisme lemah, hadir dalam jumlah sedikit, pemadaman miring, indeks bias n min>n med, warna intereferensi abu-abu orde 2, berukuran 0,3 mm.  **Biotit:** hijau kecokelatan, relief tinggi, pleokroisme sedang, euhedral, yang berukuran halus terubah menjadi serisit, berukuran hingga 1 mm  **Anhidrit:** colourless, tabular, anhedral, relief sedang, pleokroisme sedang, hadir di sela-sela plagioklas dan kuarsa dalam jumlah kecil, pemadaman paralel, indeks bias n min>n med, warna interferensi hijau orde 3, berukuran 0,11 mm.  **Serisit:** hijau kecokelatan, relief sedang, pleokroisme sedang, belahan 1 arah, warna interferensi orde 2, agregat halus, berukuran 0,1 mm  **Mineral opak:** hitam, isotrop, kedap cahaya, relief tinggi, anhedral, pleokroisme lemah, indeks bias n min>n med, berukuran 0,23 mm.  **Tipe Alterasi Ser-Ill-Anh (Potasik-Argilik)** | | | | | | |
| **Komposisi (% volume):** Kuarsa (41), plagioklas (11), biotit (25), anhidrit (1), serisit (7) dan mineral opak (15) | | | | | | |
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| **Fotomikrograf** : Mika berwarna cokelat saling interlocking dengan mineral opak (C,4), kuarsa (I,4) | | | | | | |

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| **Fotomikrograf** : Mineral opak berbentuk anhedral (H,5), Plagioklas terubah menjadi serisit (D,8), kuarsa (C,5), anhidrit muncul dalam jumlah yang sedikit (F,5) |
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| **Fotomikrograf :** Plagioklas terubah menjadi serisit (H,8) |

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| **Lokasi** |  | | | | | |
| **Kode Conto** | | **TGDD 322 06 955** | **Nama Batuan** | **Diorit** | **Klasifikasi** | **Streckeisen (1976)** |
| **Deskripsi Petrografi:**  Di dalam sayatan tipis batuan menunjukkan tekstur faneritik, derajat kristalisasi holokristalin, bentuk kristal euhedral-subhedral, kemas equigranular,hubungan antar kristal panidimorfik-hipidiomorfik, terdiri dari mineral utama kuarsa, plagioklas, mineral tambahan mineral opak dan mineral alterasi serisit, illite dan kuarsa sekunder. Serisit berwarna hijau kecokelatan, berukuran halus, kuarsa interlocking, drusty, merubah biotit. Illite berwarna krem, halus, *flaky like,* merubah plagioklas.  **Kuarsa:** colourless, relief rendah, pleokroisme lemah, interlocking, indeks bias n min>n med, warna interferensi abu-abu orde 2, berukuran hingga 0,31 mm  **Plagioklas:** colourless, relief rendah, pleokroisme lemah, hadir dalam jumlah sedikit, pemadaman miring, indeks bias n min>n med, warna intereferensi abu-abu orde 2, berukuran 0,3 mm.  **Serisit:** hijau kecokelatan, relief sedang, pleokroisme sedang, belahan 1 arah, warna interferensi orde 2, agregat halus, berukuran 0,1 mm  **Illt:** krem keputihan, relief sedang, pleokroisme lemah, *flakey like*, mengubah plagioklas, berukuran <0,1 mm.  **Mineral opak:** hitam, isotrop, kedap cahaya, relief tinggi, pleokroisme lemah, indeks bias n min>n med, berukuran 0,17 mm.  **Kuarsa sekunder ():** colourless, relief rendah, pleokroisme lemah, colourless, relief rendah, pleokroisme lemah, testur comb berupa vein berukuran besar (gambar terakhir), berukuran hingga 1.5 mm  **Tipe Alterasi: Ser-Ill-Qtz** | | | | | | |
| **Komposisi (% volume):** Kuarsa (30), plagioklas (18),serisit (20), illit (10), mineral opak (7), kuarsa sekunder (15) | | | | | | |
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| **Fotomikrograf** : Biotit terubah menjadi serisit (G,2), kuarsa bertekstur *drusty* | | | | | | |

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| **Fotomikrograf** : Plagioklas terubah menjadi serisit dan mineral lempung (G,5), biotit berwarna cokelat kehijauan (F,1) |
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| **Fotomikrograf :** Mineral opak (I,-1), kuarsa (H,2), biotit (C,4), plagioklas terubah (B,8) |

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| **Lokasi** |  | | | | | |
| **Kode Conto** | | **TGDFA-DSTK PB 9553625** | **Nama Batuan** | **Diorit** | **Klasifikasi** | **Streckeisen (1976)** |
| **Deskripsi Petrografi:**  Di dalam sayatan tipis batuan menunjukkan tekstur faneritik, derajat kristalisasi holokristalin, bentuk kristal euhedral-subhedral, kemas equigranular,hubungan antar kristal panidimorfik-hipidiomorfik, terdiri dari mineral utama kuarsa, plagioklas, mineral tambahan mineral opak dan mineral alterasi anhidrit dan serisit. Anhidrit dengan relief sedang, interlocking, tabular, bias rangkap tinggi, hijau-merah muda, serisit berwarna hijau kecokelatan, berukuran halus, merubah biotit secara massif.  **Kuarsa:** colourless, relief rendah, pleokroisme lemah, indeks bias n min>n med, warna interferensi abu-abu orde 2, berukuran hingga 0,25 mm  **Plagioklas:** colourless, relief rendah, pleokroisme lemah, hadir dalam jumlah sedikit, pemadaman miring, indeks bias n min>n med, warna intereferensi abu-abu orde 2, berukuran 0,29 mm.  **Anhidrit:** colourless, tabular, euhedral-subhedral, relief sedang, pleokroisme sedang, pemadaman paralel, indeks bias n min>n med, warna interferensi hijau orde 3, berukuran 0,48 mm.  **Serisit:** hijau kecokelatan, relief sedang, pleokroisme sedang, belahan 1 arah, warna interferensi orde 2, agregat halus dan berserabut, mengubah biotit, berukuran <0,1 mm  **Mineral opak:** hitam, isotrop, kedap cahaya, relief tinggi, pleokroisme lemah, indeks bias n min>n med, berukuran 0,3 mm.  **Tipe Alterasi: Anh-Ser** | | | | | | |
| **Komposisi (% volume):** Kuarsa (55), plagioklas (5), mineral opak (5), anhidrit (20), serisit (15) | | | | | | |
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| **Fotomikrograf** : Anhidrit dengan relief sedang berwrna biru-hijau hingga merah muda (F,3-H,8) | | | | | | |

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| **Fotomikrograf** : Anhidrit berada di antara kuarsa berwarna hijau-merah muda (E,5), mineral opak berwarna hitam (G,-6), kuarsa (D,2) |
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | -9 | -8 | -7 | -6 | -5 | -4 | -3 | -2 | -1 |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |  | | | | | | | | | A |  | | | | | | | | | | | B | | C | | D | | E | | F | | G | | H | | I | | J |   **Nikol Sejajar Nikol bersilang** |
| **Fotomikrograf :** Anhidrit dengan warna interferensi tinggi (I,7), serisit berwarna hijau kecokelatan berukuran halus (D,5) |