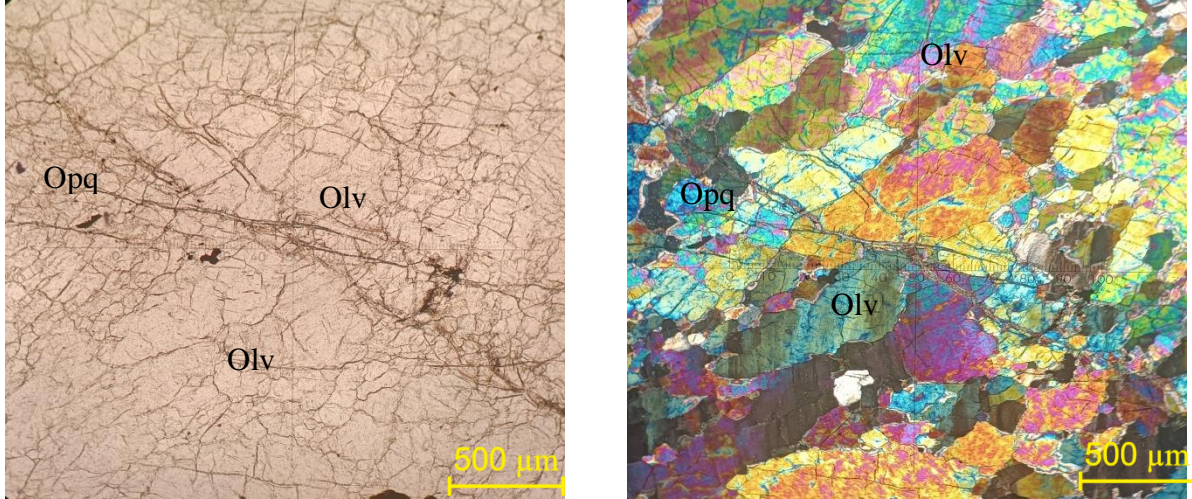


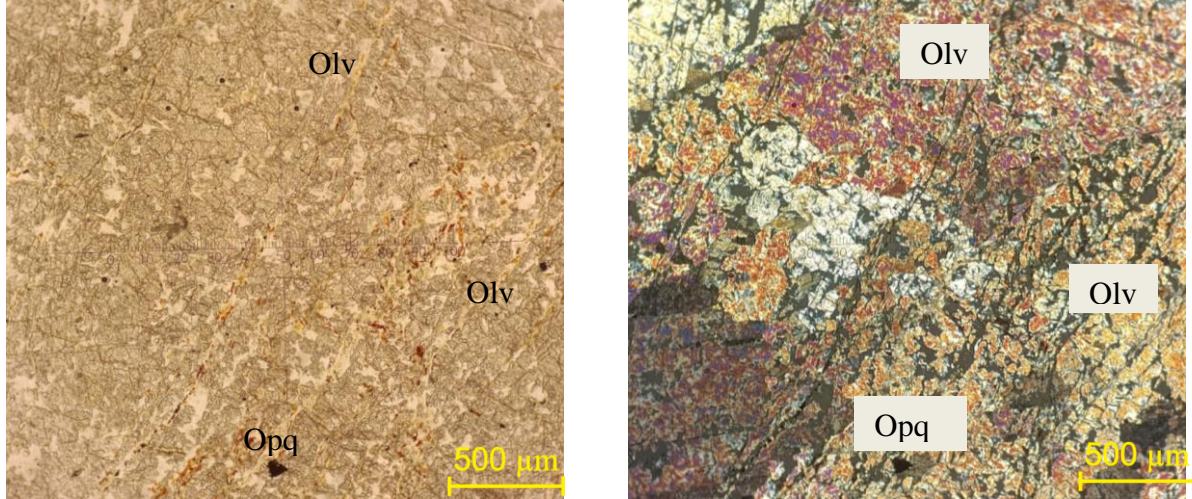
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# LAMPIRAN

|  |  |  |
|--|--|--|
| Nama Batuan : Dunit  | Nomor Stasiun : ST 01  |  |
| Satuan : -   | Lokasi : Blok X PT Vale Indonesia, Tbk.  |  |
|  |  |  |
| // - Nikol   |  |  |
| X - Nikol  |  |  |
| Tipe Batuan  | Batuan Beku  |  |
| Kenampakan Mikroskopis   | Warna absorpsi <i>colorless</i> , warna interferensi biru kekuningan, kristalinitas holokristalin, granularitas faneritik, relasi equigranular, bentuk mineral euhedral – anhedral, ukuran mineral 0,02 mm – 5 mm, komposisi mineral berupa olivin dan opaq. |  |
| Deskripsi Mineral  |  |  |
| Komposisi Mineral  | (%)  | Keterangan Optik Mineral   |
| Olivin (Olv)   | 98   | Warna absorpsi <i>colourless</i> , bentuk subhedral – anhedral, relief sedang - tinggi, plekroisme monokroik warna interferensi berwarna kuning, merah muda, biru kehijauan, ukuran mineral 0,03- 5 mm |
| Mineral Opaq (Op)  | 2  | Berwarna hitam, intensitas mineral tinggi dengan relief tinggi dan ukuran mineral 0.02-0,05 mm.  |
| Nama Batuan  | <i>Dunite</i> (Streckeisen, 1967)  |  |

|  |   |  |
|--|---|--|
| Nama Batuan : Dunit  | Nomor Stasiun : ST 01   |  |
| Satuan : -   | Lokasi : Blok X PT Vale Indonesia, Tbk.   |  |
|  |   |  |
| // - Nikol   | X - Nikol   |  |
| Tipe Batuan  | Batuan Beku   |  |
| Kenampakan Mikroskopis   | Warna absorpsi <i>colorless</i> , warna interferensi merah muda kekuningan, kristalinitas holokristalin, granularitas porfiritik, relasi inequigranular, bentuk mineral subhedral – anhedral, ukuran mineral 0,02 mm – 5 mm, komposisi mineral berupa olivin dan opa. |  |
| Deskripsi Mineral  |   |  |
| Komposisi Mineral  | (%)   | Keterangan Optik Mineral   |
| Olivin (Olv)   | 98  | Warna absorpsi <i>colorless</i> , bentuk subhedral – anhedral, relief sedang - tinggi, plekroisme monokroik warna interferensi berwarna merah muda kekuningan, ukuran mineral 0,03- 5 mm |
| Mineral Opaq (Op)  | 2   | Berwarna hitam, intensitas mineral tinggi dengan relief tinggi dan ukuran mineral 0.02-0,05 mm.  |
| Nama Batuan  | <i>Dunite</i> (Streckeisen, 1967)   |  |

Tabel 5. Sampel cek produksi

| <b>No. sampel</b> | <b>Ni %</b> | <b>No. sampel</b> | <b>Ni %</b> | <b>No. sampel</b> | <b>Ni %</b> |
|-------------------|-------------|-------------------|-------------|-------------------|-------------|
| MWF0001124115     | 1.80        | MWF0001109580     | 2.42        | MWF0001066770     | 3.39        |
| MWF0001124116     | 1.94        | MWF0001109581     | 2.66        | MWF0001021139     | 1.53        |
| MWF0001124117     | 1.73        | MWF0001109582     | 2.57        | MWF0001021140     | 1.85        |
| MEF0001004464     | 1.94        | MWF0001109583     | 2.03        | MWF0001021141     | 1.72        |
| MEF0001004465     | 2.01        | MWF0001003418     | 1.89        | MWF0001021142     | 1.78        |
| MEF0001004466     | 2.10        | MWF0001003419     | 2.42        | MEF0001004464     | 1.94        |
| MEF0001004467     | 1.60        | MWF0001003420     | 1.94        | MEF0001004465     | 2.01        |
| MWF0001039531     | 2.01        | MWF0001003421     | 1.68        | MEF0001004466     | 2.10        |
| MWF0001039532     | 1.99        | MEF0001004615     | 2.89        | MEF0001004467     | 1.60        |
| MWF0001039533     | 1.96        | MEF0001004616     | 2.89        | MEF0001004596     | 2.37        |
| MWF0001039534     | 1.99        | MEF0001004617     | 2.53        | MEF0001004597     | 1.73        |
| MWF0001066514     | 1.91        | MEF0001004618     | 2.31        | MEF0001004598     | 1.85        |
| MWF0001066515     | 1.73        | MWF0001109598     | 2.47        | MEF0001004599     | 2.33        |
| MWF0001066516     | 2.59        | MWF0001109599     | 2.47        | MWF0001021152     | 2.06        |
| MWF0001066517     | 2.49        | MWF0001109600     | 2.42        | MWF0001021153     | 2.02        |
| MWF0001066510     | 2.26        | MWF0001109601     | 2.40        | MWF0001021154     | 1.85        |
| MWF0001066511     | 2.26        | MWF0001109604     | 3.36        | MWF0001021155     | 1.70        |
| MWF0001066512     | 3.04        | MWF0001109605     | 3.00        | MWF0001109568     | 2.65        |
| MWF0001066513     | 1.65        | MWF0001109606     | 2.55        | MWF0001109569     | 2.61        |
| MWF0001021280     | 2.58        | MWF0001109607     | 2.80        | MWF0001109570     | 2.42        |
| MWF0001021281     | 2.40        | MWF0001003424     | 1.68        | MWF0001109571     | 2.43        |
| MWF0001021282     | 2.46        | MWF0001003425     | 1.79        | MWF0001090776     | 2.13        |
| MWF0001021283     | 2.38        | MWF0001003426     | 2.87        | MWF0001090777     | 2.24        |
| MWF0001021291     | 2.06        | MWF0001003427     | 2.45        | MWF0001090778     | 2.27        |
| MWF0001021292     | 3.50        | MWF0001066833     | 2.68        | MWF0001090779     | 2.40        |
| MWF0001021293     | 2.25        | MWF0001066834     | 3.06        | MWF0001090770     | 2.92        |
| MWF0001021294     | 3.42        | MWF0001066835     | 2.06        | MWF0001090771     | 2.30        |
| MWF0001003406     | 2.17        | MWF0001066836     | 2.24        | MWF0001090772     | 2.25        |
| MWF0001003407     | 2.53        | MWF0001109644     | 2.49        | MWF0001090773     | 2.66        |
| MWF0001003408     | 2.47        | MWF0001109645     | 2.48        | MWF0001169802     | 2.19        |
| MWF0001003409     | 2.13        | MWF0001109646     | 2.58        | MWF0001169793     | 2.58        |
| MWF0001003410     | 2.11        | MWF0001109647     | 2.19        | MWF0001169794     | 2.06        |
| MWF0001003411     | 1.93        | MWF0001109638     | 2.13        | MWF0001169795     | 2.71        |
| MWF0001003412     | 1.91        | MWF0001109639     | 2.58        | MWF0001169796     | 2.60        |
| MWF0001003413     | 2.00        | MWF0001109640     | 2.11        | MWF0001090742     | 3.23        |
| MWF0001066567     | 2.50        | MWF0001109641     | 3.55        | MWF0001090743     | 2.30        |
| MWF0001066568     | 2.40        | MWF0001003430     | 2.38        | MWF0001090744     | 2.29        |
| MWF0001066569     | 1.76        | MWF0001003431     | 2.37        | MWF0001090745     | 2.30        |
| MWF0001066570     | 1.35        | MWF0001003432     | 2.92        | MWF0001090746     | 2.36        |
| MWF0000106555     | 1.94        | MWF0001003433     | 2.86        | MWF0001090747     | 2.65        |

Lanjutan tabel 5. Sampel cek produksi

| <b>No. sampel</b> | <b>Ni %</b> | <b>No. sampel</b> | <b>Ni %</b> | <b>No. sampel</b> | <b>Ni %</b> |
|-------------------|-------------|-------------------|-------------|-------------------|-------------|
| MWF000106557      | 2.38        | MWF0001124398     | 1.68        | MWF0001090749     | 2.81        |
| MWF000106558      | 2.04        | MWF0001124399     | 2.30        | MWF0001021327     | 2.62        |
| MWF0001004493     | 2.52        | MWF0001124400     | 2.29        | MWF0001021328     | 2.71        |
| MWF0001004494     | 3.36        | MWF0001124415     | 2.14        | MWF0001021329     | 2.52        |
| MWF0001004495     | 2.13        | MWF0001124416     | 2.07        | MWF0001021330     | 2.75        |
| MWF0001004496     | 3.32        | MWF0001124417     | 2.26        | MWF0001021321     | 2.30        |
| MWF0001004487     | 2.11        | MWF0001124418     | 2.17        | MWF0001021322     | 2.20        |
| MWF0001004488     | 2.72        | MWF0001124409     | 1.83        | MEF0001004580     | 3.38        |
| MWF0001004489     | 2.90        | MWF0001124410     | 1.63        | MEF0001004542     | 2.47        |
| MWF0001004490     | 2.10        | MWF0001124411     | 1.64        | MEF0001004543     | 2.24        |
| MWF0001039663     | 2.46        | MWF0001124412     | 1.96        | MEF0001004544     | 2.49        |
| MWF0001039664     | 2.25        | MWF0001039699     | 1.70        | MWF0001004535     | 2.47        |
| MWF0001039665     | 2.71        | MWF0001039700     | 1.61        | MWF0001004536     | 2.39        |
| MWF0001039666     | 2.24        | MWF0001039701     | 2.28        | MWF0001004537     | 2.25        |
| MWF0001039414     | 2.18        | MWF0001039702     | 1.91        | MWF0001004538     | 2.37        |
| MWF0001039415     | 2.15        | MWF0001039705     | 1.92        | MWF0001021317     | 2.21        |
| MWF0001039416     | 2.48        | MWF0001039706     | 2.18        | MWF0001021318     | 1.92        |
| MWF0001039417     | 2.46        | MWF0001039707     | 1.89        | MWF0001021319     | 1.96        |
| MEF0001004499     | 2.73        | MWF0001039708     | 2.19        | MWF0001021320     | 1.90        |
| MEF0001004500     | 2.79        | MWF0001066488     | 1.90        | MWF0001021309     | 2.13        |
| MEF0001004501     | 2.66        | MWF0001066489     | 1.63        | MWF0001021310     | 1.86        |
| MEF0001004502     | 2.75        | MWF0001066490     | 1.82        | MWF0001021311     | 1.85        |
| MEF0001004505     | 2.53        | MWF0001066491     | 2.14        | MWF0001021312     | 2.11        |
| MEF0001004506     | 2.30        | MWF0001124423     | 1.89        | MEF0001004559     | 2.46        |
| MEF0001004507     | 2.72        | MWF0001124424     | 1.64        | MEF0001004560     | 3.02        |
| MEF0001004508     | 2.55        | MWF0001124425     | 1.76        | MEF0001004561     | 2.97        |
| MWF0001124243     | 2.37        | MWF0001124426     | 1.83        | MEF0001004562     | 3.05        |
| MWF0001124244     | 2.37        | MWF0001021160     | 1.76        | MWF0001004553     | 2.56        |
| MWF0001124245     | 2.42        | MWF0001021161     | 1.75        | MWF0001004554     | 2.60        |
| MWF0001124246     | 2.43        | MWF0001021162     | 2.07        | MWF0001004555     | 2.59        |
| MWF0001124237     | 2.73        | MWF0001021163     | 2.09        | MWF0001004556     | 2.91        |
| MWF0001124238     | 3.34        | MWF0001021172     | 2.12        | MWF0001039681     | 2.02        |
| MWF0001124239     | 3.35        | MWF0001021173     | 1.98        | MWF0001039682     | 2.40        |
| MWF0001124240     | 2.76        | MWF0001021174     | 2.15        | MWF0001039683     | 2.44        |
| MWF0001004515     | 3.22        | MWF0001021175     | 1.94        | MWF0001039684     | 2.10        |
| MWF0001004516     | 2.16        | MWF0001097063     | 1.82        | MWF0001039675     | 2.58        |
| MWF0001004517     | 2.68        | MWF0001097064     | 1.80        | MWF0001039676     | 2.58        |
| MWF0001004518     | 2.76        | MWF0001097065     | 1.92        | MWF0001039677     | 2.92        |
| MWF0001004511     | 3.22        | MWF0001097066     | 1.90        | MWF0001039678     | 2.95        |
| MWF0001004512     | 1.65        | MWF0001039711     | 2.03        | MEF0001004572     | 2.37        |

Lanjutan tabel 5. Sampel cek produksi

| No. sampel    | Ni % | No. sampel    | Ni % | No. sampel    | Ni % |
|---------------|------|---------------|------|---------------|------|
| MWF0001004513 | 2.73 | MWF0001039712 | 1.95 | MEF0001004573 | 2.20 |
| MWF0001004514 | 2.63 | MWF0001039713 | 1.81 | MEF0001004574 | 2.80 |
| MEF0001004527 | 3.04 | MWF0001039714 | 2.05 | MEF0001004575 | 2.89 |
| MEF0001004528 | 2.08 | MWF0001124315 | 1.90 | MEF0001004566 | 2.31 |
| MEF0001004529 | 2.09 | MWF0001124316 | 1.90 | MEF0001004567 | 2.07 |
| MEF0001004530 | 2.95 | MWF0001124317 | 1.75 | MEF0001004568 | 2.04 |
| MWF0001021297 | 1.98 | MWF0001124318 | 1.73 | MEF0001004569 | 2.02 |
| MWF0001021298 | 2.53 | MEF0001004581 | 2.39 | MWF0001169799 | 2.40 |
| MWF0001021299 | 2.51 | MWF0001066773 | 1.94 | MWF0001169800 | 2.14 |
| MWF0001021300 | 2.56 | MWF0001066774 | 2.02 | MWF0001169801 | 2.33 |
| MWF0001021303 | 2.88 | MWF0001066775 | 1.97 | MWF0001021323 | 2.25 |
| MWF0001021304 | 3.01 | MWF0001066776 | 1.90 | MWF0001021324 | 2.32 |
| MWF0001021305 | 2.04 | MWF0001066767 | 2.28 | MEF0001004584 | 1.85 |
| MWF0001021306 | 2.46 | MWF0001066768 | 1.90 | MEF0001004585 | 2.04 |
| MEF0001004541 | 2.24 | MWF0001066769 | 3.26 | MEF0001004586 | 1.95 |
| MEF0001004578 | 2.40 | MEF0001004579 | 2.24 | MEF0001004587 | 1.94 |
| MWF0000106556 | 1.83 | MWF0001124397 | 1.96 | MWF0001090748 | 2.39 |



Tabel 6 Total tonase dan sampel produksi

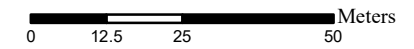
| <b>Waktu</b>                 | <b>ROM</b> | <b>Ni</b> | <b>Rata-rata Ni</b> |
|------------------------------|------------|-----------|---------------------|
| WEEK 20(14-20 MEI 2022)      | 619        | 2.08      | 1287.7696           |
|                              | 0          | 0.00      | 0                   |
|                              | 1099       | 1.87      | 2054.6064           |
|                              | 2040       | 1.94      | 3954.81648          |
|                              | 2494       | 1.96      | 4886.20404          |
|                              | 2459       | 1.96      | 4826.63336          |
|                              | 1744       | 2.33      | 4071.47264          |
| WEEK 21(21-27 MEI 2022)      | 0          | 0         | 0                   |
|                              | 0          | 0         | 0                   |
|                              | 3264       | 2.02      | 6593.28             |
|                              | 4004       | 2         | 8008                |
|                              | 3953       | 2.04      | 8064.12             |
|                              | 4539       | 2.07      | 9395.73             |
|                              | 3889       | 2.06      | 8011.34             |
| WEEK 22 (28 MEI-3 JUNI 2022) | 804        | 2.07      | 1664.28             |
|                              | 0          | 0         | 0                   |
|                              | 964        | 1.91      | 1841.24             |
|                              | 170        | 1.7       | 289                 |
|                              | 839        | 1.97      | 1652.83             |
|                              | 1536       | 1.96      | 3010.56             |
|                              | 1402       | 2         | 2804                |
| WEEK 23 (4 - 10 JUNI 2022)   | 2466       | 2         | 4932                |
|                              | 0          | 0         | 0                   |
|                              | 1995       | 1.96      | 3910.2              |
|                              | 2285       | 1.9       | 4341.5              |
|                              | 1668       | 1.91      | 3185.88             |
|                              | 653        | 1.82      | 1188.46             |
|                              | 230        | 1.93      | 443.9               |
| <b>TOTAL</b>                 | 45116      | 1.62      | 90417.82252         |
| <b>RATA-RATA</b>             |            |           | 2.004106334         |

Tabel 7 Sampel cek rompile

| <b>Waktu</b>     | <b>SAMPLE ID</b> | <b>NI</b> | <b>FE</b> |
|------------------|------------------|-----------|-----------|
| 17-May-22        | 1                | 2.09      | 18.50     |
|                  | 2                | 2.11      | 18.70     |
|                  | 3                | 2.24      | 19.50     |
|                  | 4                | 2.26      | 19.70     |
|                  | 5                | 2.23      | 19.60     |
| 21-May-22        | 6                | 2.37      | 17.10     |
|                  | 7                | 2.60      | 18.50     |
|                  | 8                | 3.29      | 17.50     |
|                  | 9                | 1.65      | 36.10     |
|                  | 10               | 2.77      | 19.10     |
|                  | 11               | 2.47      | 17.60     |
| 26-May-22        | 12               | 2.08      | 19.60     |
|                  | 13               | 2.37      | 23.50     |
|                  | 14               | 2.36      | 17.80     |
|                  | 15               | 2.52      | 16.10     |
|                  | 16               | 2.16      | 20.20     |
|                  | 17               | 2.76      | 22.00     |
| 30-May-22        | 18               | 2.68      | 14.80     |
|                  | 19               | 2.00      | 16.10     |
|                  | 20               | 1.85      | 22.40     |
|                  | 21               | 1.98      | 16.10     |
|                  | 22               | 1.63      | 17.40     |
|                  | 23               | 1.68      | 24.10     |
|                  | 24               | 1.90      | 30.70     |
| 6/4/2022         | 25               | 1.95      | 18.30     |
|                  | 26               | 1.64      | 18.40     |
|                  | 27               | 1.83      | 12.60     |
|                  | 28               | 1.85      | 12.10     |
|                  | 29               | 2.12      | 16.40     |
|                  | 30               | 2.11      | 16.30     |
| <b>RATA-RATA</b> |                  | 2.19      | 19.23     |

**PETA STASIUN**






DAERAH X PT. VALE INDONESIA, Tbk.  
 KECAMATAN NUHA KABUPATEN LUWU TIMUR  
 PROVINSI SULAWESI SELATAN

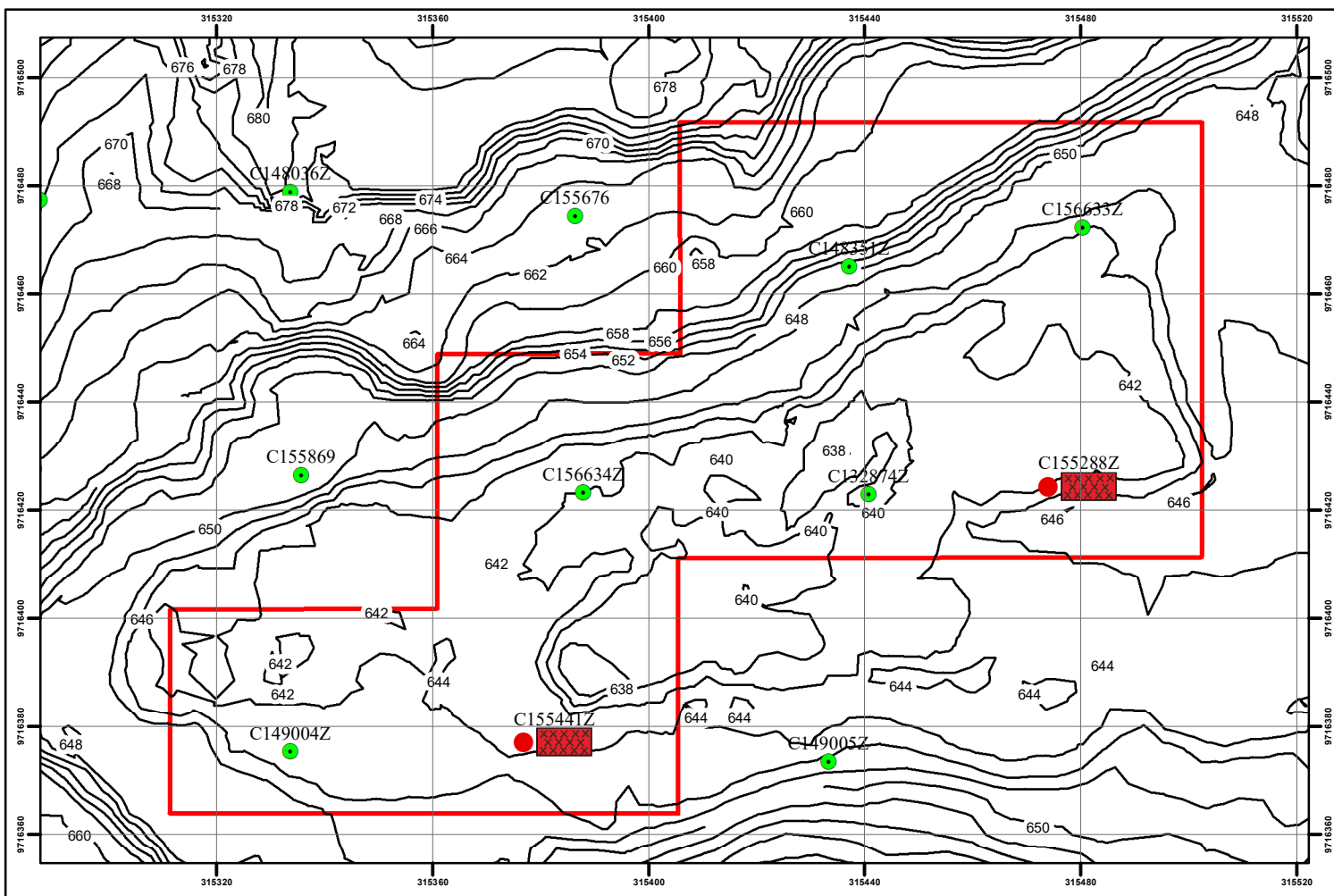


SKALA 1:1250

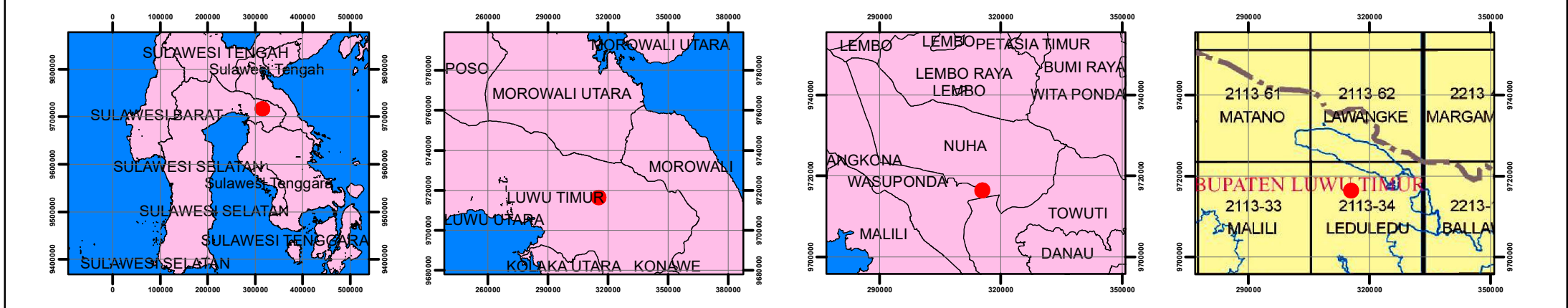
OLEH:  
 NURUL FATIHAH SOUKOTTA  
 D061181019

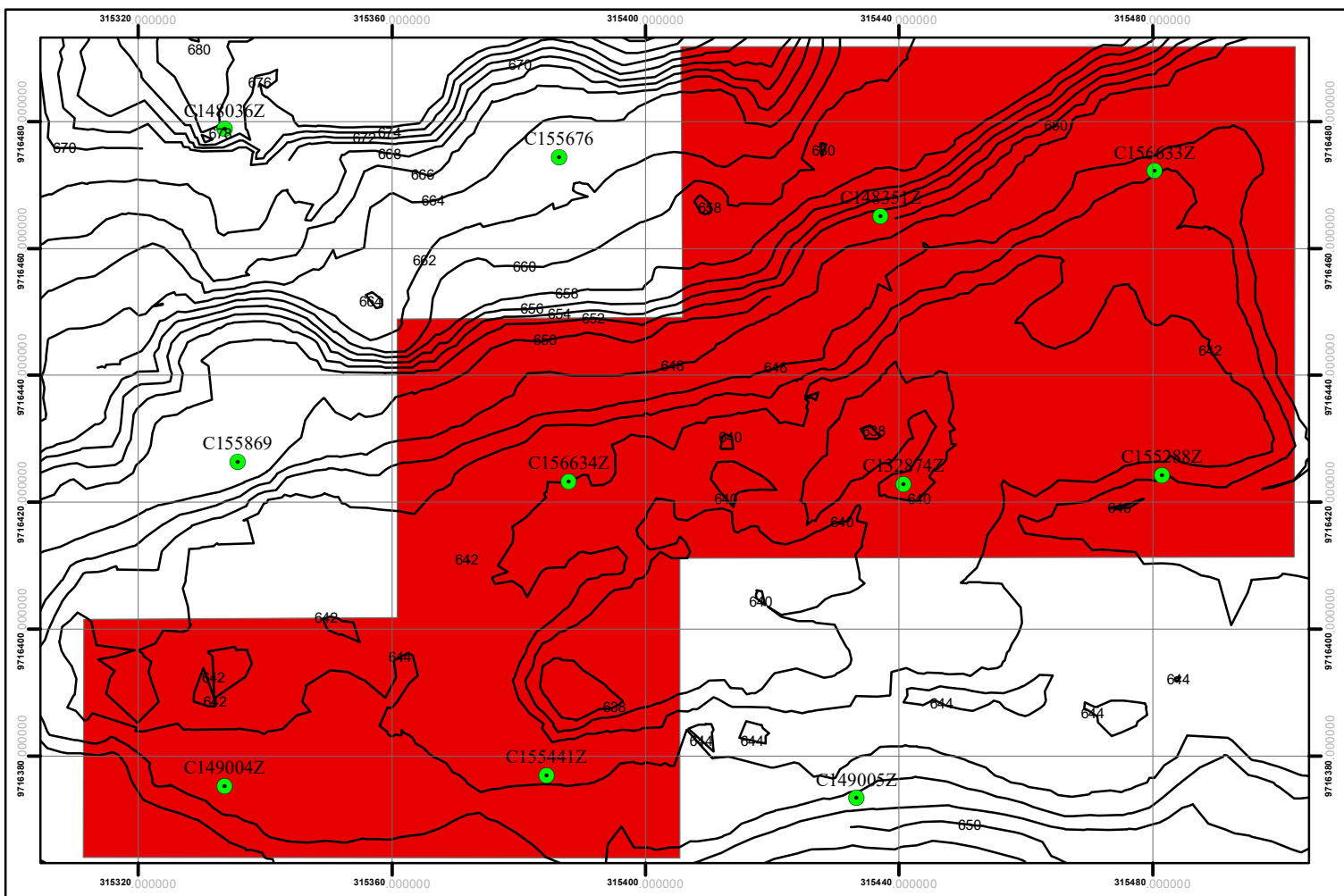
**KETERANGAN :**

-  : TITIK BOR
-  : TITIK BOR DAN PENGAMBILAN SAMPEL PETROGRAFI
-  : SATUAN DUNIT
-  : KONTUR
-  : BATAS PETA



**PETA TUNJUK LOKASI**





KEMENTERIAN PENDIDIKAN, KEBUDAYAAN, RISET DAN TEKNOLOGI  
 UNIVERSITAS HASANUDDIN  
 FAKULTAS TEKNIK  
 DEPARTEMEN TEKNIK GEOLOGI

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**PETA GEOLOGI**

DAERAH X PT. VALE INDONESIA, Tbk.  
 KECAMATAN NUHA KABUPATEN LUWU TIMUR  
 PROVINSI SULAWESI SELATAN

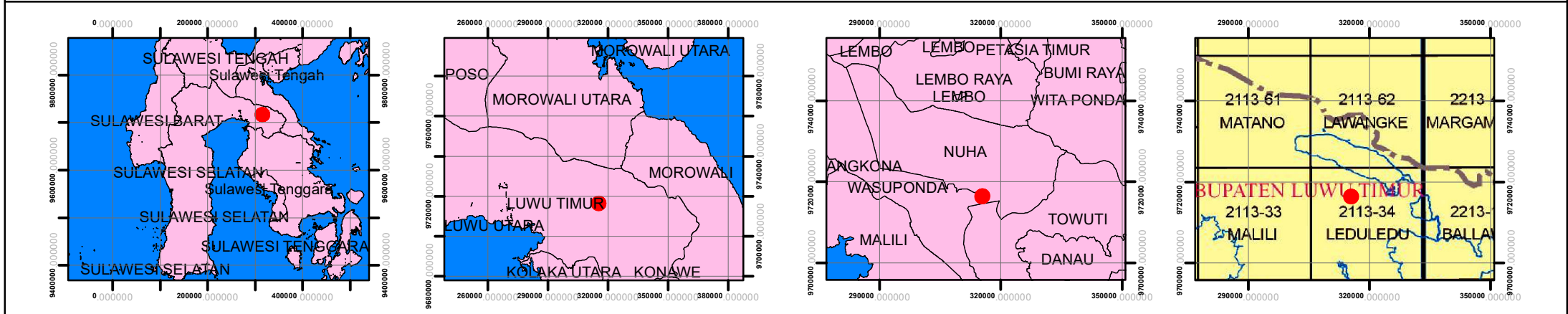
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OLEH:  
 NURUL FATIHAH SOUKOTTA  
 D061181019

**KETERANGAN :**

- : BATAS PETA
- 654
 : KONTUR
- : TITIK BOR

**PETA TUNJUK LOKASI**



**PETA SEBARAN NIKEL (Ni)**  
 DAERAH X PT. VALE INDONESIA, Tbk.  
 KECAMATAN NUHA KABUPATEN LUWU TIMUR  
 PROVINSI SULAWESI SELATAN



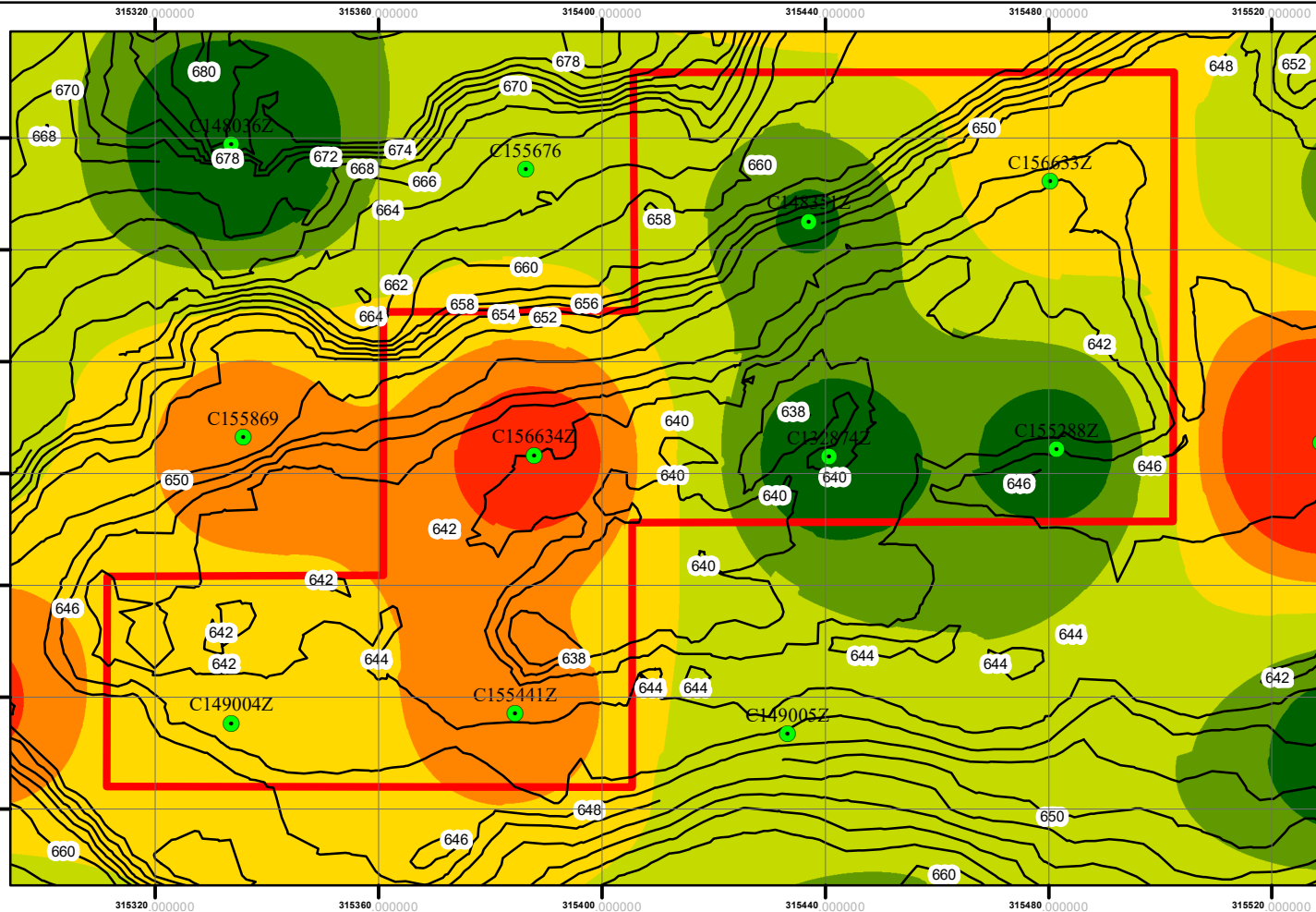
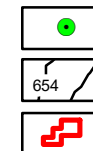
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SKALA 1:1250

OLEH:  
 NURUL FATIHAH SOUKOTTA  
 D061181019

**KETERANGAN :**

**KADAR Ni (%)**



**PETA TUNJUK LOKASI**

