

DAFTAR PUSTAKA

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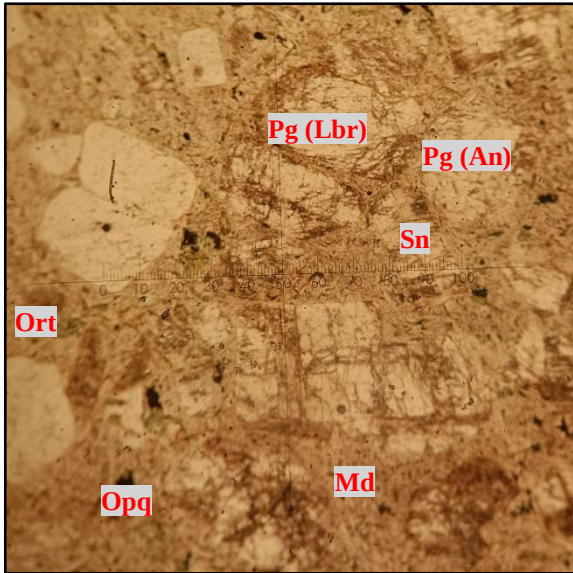
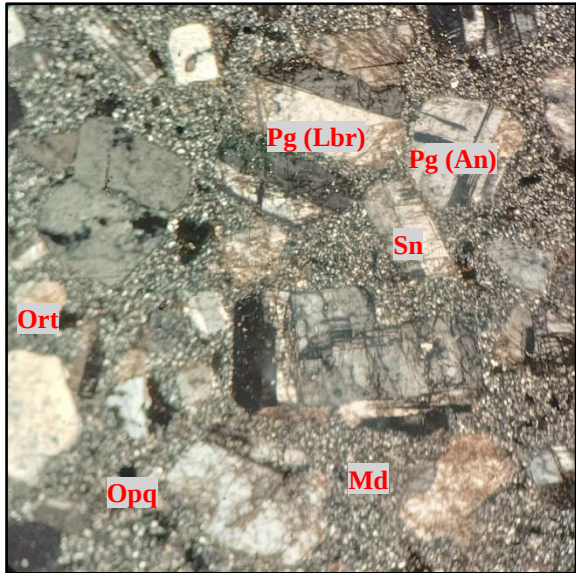
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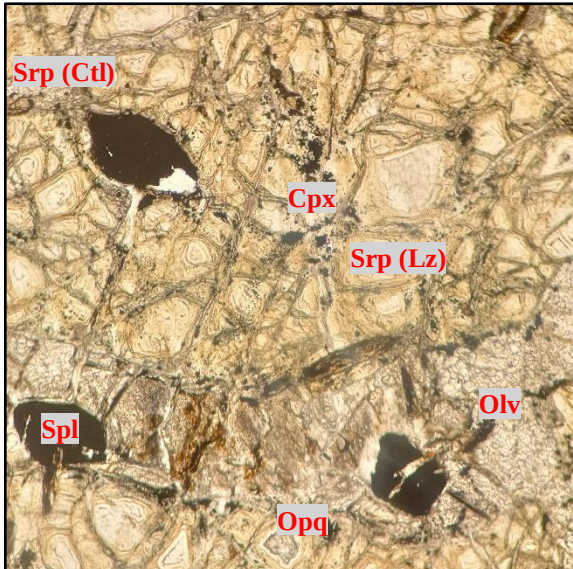
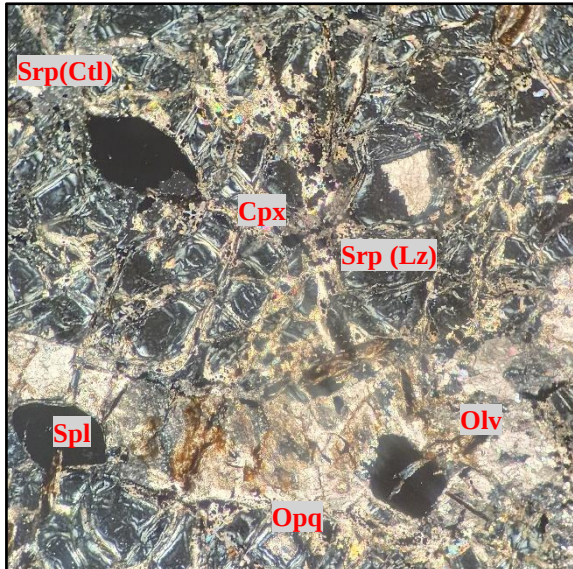
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No.Sampel	: DS/JPE/BD1	Satuan	: Batuan Intrusi
Lokasi	: Daerah Jeppee, Barru	Jenis Batuan	: Batuan Beku
Foto			
			
//Nikol		X – Nikol	
Lensa Okuler : 10x		Lensa Objektif : 4x	
		Perbesaran Total : 40x	
Tipe Batuan	: Batuan Beku		
Tipe Stuktur	: Masif		
Mikroskopis	: Warna absorpsi coklat, warna interferensi abu-abu, granularitas porfiritik, kristalinitas hipokristalin, relasi <i>inequigranular</i>, bentuk mineral euhedral-anhedral, ukuran mineral 0,025 – 0,75 mm. Komposisi mineral plagioklas, sanidin, ortoklas, opak, dan massa dasar.		
Deskripsi Mineralogi			
Komposisi Mineral	Jumlah (%)	Keterangan Optik Mineral	
Plagioklas (Pg)	50%	- Labradorit (Lbr): Warna absorpsi tidak berwarna dan warna interferensi abu-abu. Berbentuk euhedral – subhedral, relief sedang, intensitas tinggi, pleokriosme dwikroik, belahan tidak ada, jenis kembaran carlsbad, sudut gelapan 32°, jenis gelapan miring, dan ukuran mineral 0,5 mm - Andesin (An): Warna absorpsi tidak berwarna dan warna interferensi abu-abu. Berbentuk subhedral – anhedral, relief rendah, intensitas tinggi, jenis kembaran carlsbad – albit, pleokriosme dwikroik, belahan tidak ada, sudut gelapan 23°, jenis gelapan miring, dan ukuran mineral 0,25 mm.	

No.Sampel	: DS/JPE/BD2	Satuan	: Batuan Ultrabasa
Lokasi	: Daerah Jeppee, Barru	Jenis Batuan	: Batuan Metamorf
Foto			
			
//Nikol		X – Nikol	
Lensa Okuler : 10x		Lensa Objektif : 4x	
		Perbesaran Total : 40x	
Tipe Batuan		: Batuan Beku	
Tipe Stuktur		: Masif	
Mikroskopis		:	
Warna absorpsi abu-abu kecoklatan, warna interferensi abu-abu, granularitas faneritik, kristalinitas holokristalin, relasi <i>equigranular</i> , bentuk mineral euhedral-subhedral, tekstur sekunder <i>Mesh</i> dan <i>Fibrous</i> , dan ukuran mineral 0,05 – 0,5 mm. Komposisi mineral serpentin, spinel, klinopiroksen, dan opa.			
Deskripsi Mineralogi			
Komposisi Mineral	Jumlah (%)	Keterangan Optik Mineral	
Serpentin (Srp)	70%	- Lizardit (Lz): Warna absorpsi tidak berwarna dan warna interferensi abu-abu. Berbentuk euhedral – subhedral, relief rendah, intensitas sedang, pleokrisisme monokroik, memiliki tekstur khusus <i>Mesh</i> dan <i>Fibrous</i>, dan ukuran mineral 0,1 – 0,5 mm - Chrysotile (Ctl): Warna absorpsi tidak berwarna dan warna interferensi abu-abu. Berbentuk subhedral – anhedral, relief rendah, intensitas sedang, pleokrisisme monokroik, hadir dalam tekstur vein, dan ukuran mineral 0,25 mm.	

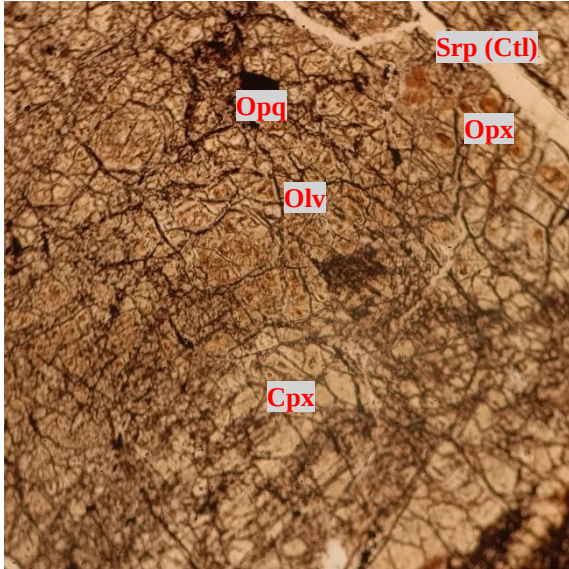
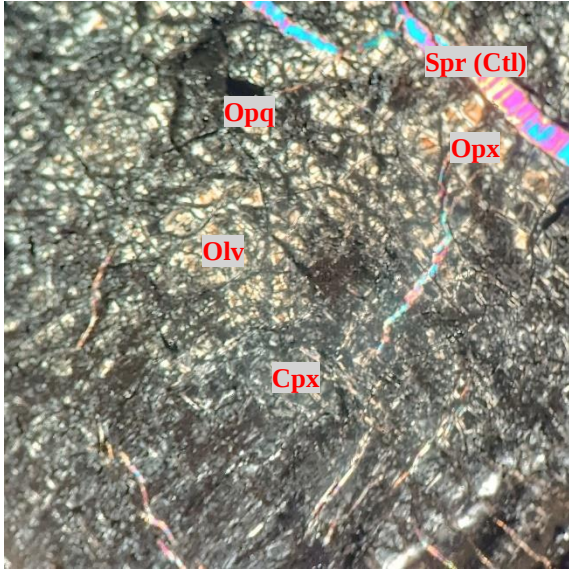
Olivin	15%	Warna absorpsi tidak berwarna, warna interferensi kuning kecoklatan, bentuk subhedral-anhedral, memiliki relief sedang, intensitas sedang, pecahan <i>uneven</i> , pleokrisme monokroik, ukuran mineral 0.02 – 0.1 mm, sudut gelapan 25°, jenis gelapan miring.
Spinel (Spl)	10%	Warna absorpsi hitam kecoklatan dan warna interferensi hitam. Berbentuk subhedral – anhedral, relief sedang, intensitas lemah, dan ukuran mineral 0,05 – 0,1 mm
Klinopiroksen (Cpx)	3%	Warna absorpsi tidak berwarna dan warna interferensi kecoklatan. Berbentuk subhedral-anhedral, relief rendah, intensitas sedang, pleokrisme monokroik, belahan satu arah, sudut gelapan 31°, jenis gelapan miring. Ukuran mineral 0,05 – 0,075 mm
Opaq (Opq)	2%	Warna absorpsi hitam dan warna interferensi hitam. Bentuk anhedral dengan ukuran mineral 0,05 mm
Nama Batuan : Serpentine (IUGS, 2004)		

Tabel penamaan batuan metamorf spesifik (IUGS, 2004)

Rock Name	Mineralogy	Texture & Notes
<i>Amphibolite</i>	Hbl + Pl ± Qtz ± Bt ± Ms ± Grt	Schistose or granofelsic. If granofelsic, may be impossible to distinguish from diorite.
<i>Blueschist</i>	Glc + Ab ± Lws ± Ep	Often schistose, but may be granofelsic.
<i>Calc-silicate rock</i>	Variable, but often: Grs, Ep, Di, Vsv, Tlc, Wo, Tr, Cal, Dol (<5% carbonates)	Generally granofelsic, but often layered.
<i>Carbonate-silicate rock</i>	Variable, but often: Grs, Ep, Di, Vsv, Tlc, Wo, Tr, Cal, Dol (5-50% carbonates)	Generally granofelsic, but often layered.
<i>Cataclasite</i>	Any	A fault rock, schistosity poorly developed or absent, with angular crystals and rock fragments.
<i>Eclogite</i>	Grt + omphacite (Na-cpx) ± Ky ± Rut ± Qtz	May be schistose or granofelsic.
<i>Granulite</i>	Variable, with mostly OH-free minerals: Fsp ± Opx ± Cpx ± Crd ± Sil	May be schistose or granofelsic. Very high grade rock.
<i>Greenschist</i>	Ab + Chl + Ep + Act ± Qtz	Schistose, generally foliated. Visible minerals are not required, nor is it required to fit the definition of schist below.
<i>Greenstone</i>	Ab + Chl + Ep + Act ± Qtz	Granofelsic, generally fine-grained.
<i>Hornfels</i>	Variable, and generally too fine-grained to see in hand specimen	Granofelsic on the microscopic scale. Fine-grained, hard, homogeneous, breaking along curved fractures.
<i>Marble</i>	Dominated by carbonates (> 50%), but may also have: Qtz, Grs, Ep, Di, Vsv, Tlc, Wo, Tr, others	Usually granofelsic but may be layered, or have foliation defined by stretched carbonate grains or aligned inequant minerals, if present.
<i>Migmatite</i>	Typically a combination of mica schist minerals and granitoid minerals.	Separate, irregularly distributed domains of mica schist rock and granitic rock.
<i>Mylonite</i>	Any	A sheared rock, with plastically deformed mineral grains defining a foliation
<i>Phyllite</i>	Ms (or other white mica) + Chl / Bt ± Fsp ± Qtz	Foliated, with fine-grained matrix coarse enough to provide a "sheen" to the rock.
<i>Quartzite</i>	Qtz (> 75%) + Bt ± Ms ± Grt ± Als	Granofelsic unless inequant minerals present.
Serpentine	Srp (>50%) ± Mag/Chr	Often schistose and generally fine grained
<i>Skarn (= Tactite)</i>	Variable, but often: Grs, Ep, Di, Vsv, Tlc, Wo, Tr, Cal, Dol	Hydrothermal rock, so generally layered; often coarse with euhedral crystals.
<i>Slate</i>	Too fine to discern in hand specimen, but may have pyrite porphyroblasts.	Fine grained to cryptocrystalline, with slate cleavage. Dull surface (<i>cf.</i> phyllite)
<i>Soapstone</i>	Tlc ± Srp ± Mag	Generally schistose

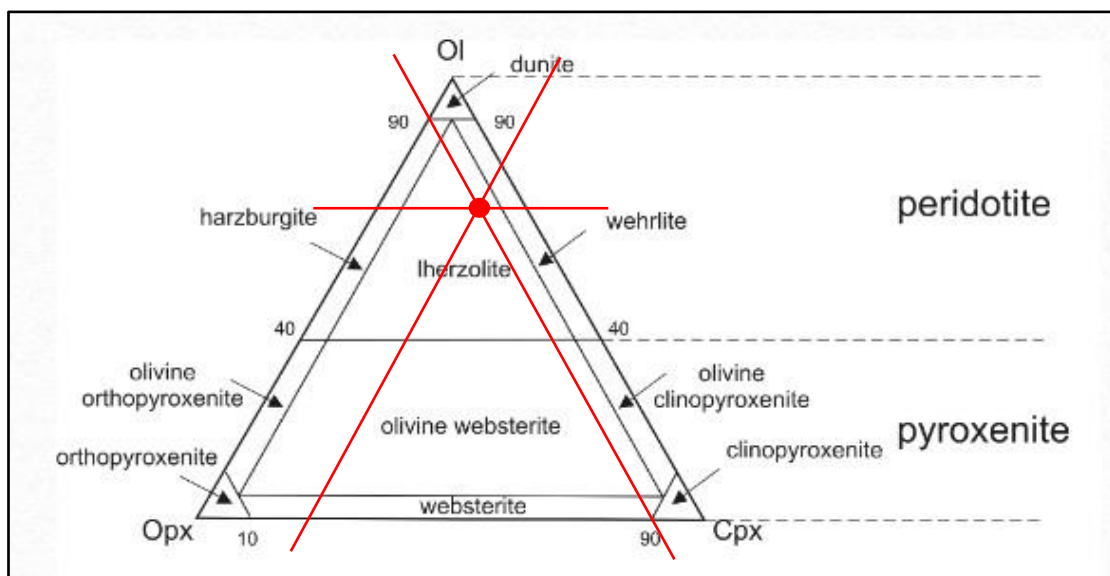
Mineral Abbreviations
A subset of those given in Kretz (1983), with a few additions.

Ab - Albite	Act - Actinolite	Als - Aluminum Silicate	Bt - Biotite	Cal - Calcite
Chl - Chlorite	Chr - Chromite	Cpx - Clinopyroxene	Crd - Cordierite	Di - Diopside
Dol - Dolomite	Ep - Epidote	Fsp - Feldspar	Glc - Glaucophane	Grs - Grossular
Grt - Garnet	Hbl - Hornblende	Ky - Kyanite	Lws - Lawsonite	Mag - Magnetite
Ms - Muscovite	Opx - Orthopyroxene	Pl - Plagioclase	Qtz - Quartz	Rut - Rutile
Srp - Serpentine	Sil - Sillimanite	Tlc - Talc	Tr - Tremolite	Vsv - Vesuvianite
Wo - Wollastonite				

No.Sampel	: DS/JPE/BD3	Satuan	: Batuan Ultrabasa
Lokasi	: Bulu Sabangnairi, Barru	Jenis Batuan	: Batuan Beku
Foto			
			
//-Nikol		X – Nikol	
Lensa Okuler : 10x		Lensa Objektif : 4x	
		Perbesaran Total : 40x	
Tipe Batuan	: Batuan Beku		
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Mikroskopis	: Warna absorpsi coklat, warna interferensi abu-abu kecoklatan, granularitas faneritik, kristalinitas holokristalin, relasi <i>equigranular</i>, bentuk mineral subhedral – anhedral, tekstur sekunder <i>Fibrous</i>, dan ukuran mineral 0,01 – 0,25 mm. Komposisi mineral serpentin, spinel, klinopiroksen, dan opaqa.		
Deskripsi Mineralogi			
Komposisi Mineral	Jumlah (%)	Keterangan Optik Mineral	
Olivin	60%	Warna absorpsi tidak berwarna, warna interferensi kuning kecoklatan, bentuk subhedral-anhedral, memiliki relief sedang, intensitas sedang, pecahan <i>uneven</i> , pleokrisme monokroik, ukuran mineral 0.02 – 0.1 mm, sudut gelapan 25°, jenis gelapan miring.	
Serpentin	5%	Chrysotile (Ctl): Warna absorpsi tidak berwarna dan warna interferensi biru keunguan. Berbentuk anhedral, relief rendah, intensitas sedang, hadir dalam tekstur <i>vein</i> , dan ukuran mineral 0,01 – 0,25 mm	
Klinopiroksen (Cpx)	20%	Warna absorpsi abu-abu, warna interferensi abu-abu kecoklatan, bentuk suhedral – anhedral, memiliki relief sedang, intensitas sedang, pleokrisme monokroik, sudut	

		gelapan 8°, jenis gelapan miring, dan ukuran mineral 0,075 – 0,1 mm
Ortopiroksen (Opx)	10%	Warna absorbs coklat, warna interferensi kuning kecoklatan, bentuk subhedral – anhedral, relief rendah, intensitas sedang, pleokroisme monokroik, sudut gelapan 46°, jenis gelapan parallel, dan ukuran mineral 0.01 – 0.05 mm
Opaq (Opq)	5%	Warna absorpsi hitam dan warna interferensi hitam. Bentuk anhedral dengan ukuran mineral 0,1 mm
Nama Batuan : Lherzolite (Streckeisen, 1979)		

Klasifikasi Streckeisen (1979)



Perhitungan CIA :

$$\text{CIA} = \frac{\text{Al}_2\text{O}_3}{\text{Al}_2\text{O}_3 + \text{CaO} + \text{Na}_2\text{O} + \text{K}_2\text{O}} \times 100$$

$$\text{Al}_2\text{O}_3 \text{ (moles)} = \text{Al}_2\text{O}_3 \text{ (wt\%)} / 101,96128 \text{ (g/mol)}$$

$$\text{CaO (moles)} = \text{CaO (wt\%)} / 56,0774 \text{ (g/mol)}$$

$$\text{Na}_2\text{O (moles)} = \text{Na}_2\text{O (wt\%)} / 61,97894 \text{ (g/mol)}$$

$$\text{K}_2\text{O (moles)} = \text{K}_2\text{O (wt\%)} / 94,19600 \text{ (g/mol)}$$

$$\text{P}_2\text{O}_5 \text{ (moles)} = \text{P}_2\text{O}_5 \text{ (wt\%)} / 141,9445 \text{ (g/mol)}$$

$$\text{CO}_2 \text{ (moles)} = \text{CO}_2 \text{ (wt\%)} / 44,0095 \text{ (g/mol)}$$

$$\begin{aligned} \bullet \text{ BD1: CIA} &= \frac{(12,51/101,96128)}{(12,51/101,96128) + (2,31/56,0774) + (0,04/61,97894) + (0,47/94,19600)} \times 100 \\ &= \frac{0,122693634}{0,169521676} \times 100 = 72,38 \end{aligned}$$

$$\begin{aligned} \bullet \text{ SP1: CIA} &= \frac{(15,35/101,96128)}{(15,35/101,96128) + (0,61/56,0774) + (0,03/61,97894) + (1,06/94,19600)} \times 100 \\ &= \frac{0,150547345}{0,173162335} \times 100 = 86,94 \end{aligned}$$

$$\begin{aligned} \bullet \text{ PD1: CIA} &= \frac{(12,31/101,96128)}{(12,31/101,96128) + (0,04/56,0774) + (0,02/61,97894) + (0,52/94,19600)} \times 100 \\ &= \frac{0,120732105}{0,1272885} \times 100 = 94,85 \end{aligned}$$

$$\begin{aligned} \bullet \text{ BD2: CIA} &= \frac{(0,63/101,96128)}{(0,63/101,96128) + (3,4/56,0774) + (0,03/61,97894) + (0,01/94,19600)} \times 100 \\ &= \frac{0,006178816}{0,067399499} \times 100 = 9,17 \end{aligned}$$

$$\begin{aligned} \bullet \text{ SP2: CIA} &= \frac{(2,94/101,96128)}{(2,94/101,96128) + (0,04/56,0774) + (0,02/61,97894) + (0,02/94,19600)} \times 100 \\ &= \frac{0,028834475}{0,030082789} \times 100 = 95,85 \end{aligned}$$

- **PD2: CIA** =
$$\frac{(9,86/101,96128)}{(9,86/101,96128) + (0,05/56,0774) + (0,02/61,97894) + (0,12/94,19600)} \times 100$$

$$= \frac{0,096703376}{0,099191631} \times 100 = 97,49$$
- **BD3: CIA** =
$$\frac{(3,44/101,96128)}{(3,44/101,96128) + (0,17/56,0774) + (0,04/61,97894) + (0,03/94,19600)} \times 100$$

$$= \frac{0,033738298}{0,037733687} \times 100 = 89,41$$
- **SP3: CIA** =
$$\frac{(0,95/101,96128)}{(0,95/101,96128) + (0,01/56,0774) + (0,03/61,97894) + (0,01/94,19600)} \times 100$$

$$= \frac{0,009317262}{0,010085784} \times 100 = 92,38$$
- **PD3: CIA** =
$$\frac{(13,44/101,96128)}{(13,44/101,96128) + (0,01/56,0774) + (0,02/61,97894) + (0,04/94,19600)} \times 100$$

$$= \frac{0,131814744}{0,132740405} \times 100 = 99,30$$



PT. JASA MUTU MINERAL INDONESIA

Coal & Mineral Services

Jl. R. Soeprapto RT.10 RW.04 No.151 B Punggolaka Kel. Tobuaha Kec. Puuwatu, Kendari Sulawesi Tenggara
Telp. 0401 3420485

Email : marketing@mutuenergy.com, www.mutuenergy.com

REPORT OF ANALYSIS



Report No. : 1119 / ROA - MES KDI / XII / 2023
Principle : Mr. Diabri Samuel
Address : Lingkungan IV, RT 000 RW 004, Kel Kairagi Weru, Kec Paal Dua, Kota Manado
Sulawesi Selatan
Report to : Mr. Daniel Samuel
Email : diabrisamuel27@gmail.com
Receiving Date : Desember 05, 2023
Testing Date : Desember 07, 2023
Number of Sample : 9
Type Of Sample : Wet Sampel
Description Sample : Stone Sample Were Packed
Job Number : 1119 / ROA - MES KDI / XII / 2023
Result of Analysis :

Name Sample	Ni	Fe ₂ O ₃	Fe	Al ₂ O ₃	CaO	MgO	Cr ₂ O ₃	Na ₂ O	K ₂ O	SiO ₂	TiO ₂	Co	MnO	P ₂ O ₅ *	SO ₄ *
	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
BD / LB 1	0.20	4.20	2.94	12.51	2.31	3.20	0.06	0.04	0.47	56.27	0.22	< 0.01	0.05	< 0.01	0.04
BD / P2	0.26	7.33	5.13	0.63	3.40	27.68	0.62	0.03	< 0.01	30.62	0.03	0.01	0.12	0.01	< 0.01
BD / P3	0.34	6.88	4.81	3.44	0.17	28.42	1.85	0.04	0.03	35.91	0.03	0.01	0.12	0.01	0.01
LP 2 / P1	0.15	16.33	11.42	15.32	0.61	3.01	0.17	0.03	1.06	42.40	1.31	0.01	0.15	< 0.01	0.05
LP 2 / P2	0.82	16.62	11.62	2.94	0.04	14.98	1.23	0.02	0.02	36.90	0.08	0.02	0.23	0.01	< 0.01
LP 2 / P3	1.07	13.89	9.71	0.95	0.01	22.31	0.82	0.03	< 0.01	32.60	0.02	0.02	0.23	0.01	< 0.01
LP 1 / P1	0.04	6.16	4.31	12.13	0.04	0.34	0.08	0.02	0.52	40.78	0.30	< 0.01	0.09	< 0.01	0.06
LP 1 / P2	0.27	23.13	16.17	9.86	0.05	1.10	1.21	0.02	0.12	43.04	0.37	0.02	0.28	0.01	0.04
LP 1 / P3	0.74	43.69	30.55	13.44	0.01	0.60	7.91	0.02	0.04	23.70	0.10	0.09	1.27	0.01	0.10

Test Methode

Lol (%) : IK MES-304 ST (Gravimetri)
Moisture Content (%) : JIS M 8109 - 1996
Pengujian Logam XRF (%) : IK MES - 305 ST (Fusion Bead-XRF)
(*) : Parameters not accredited by KAN

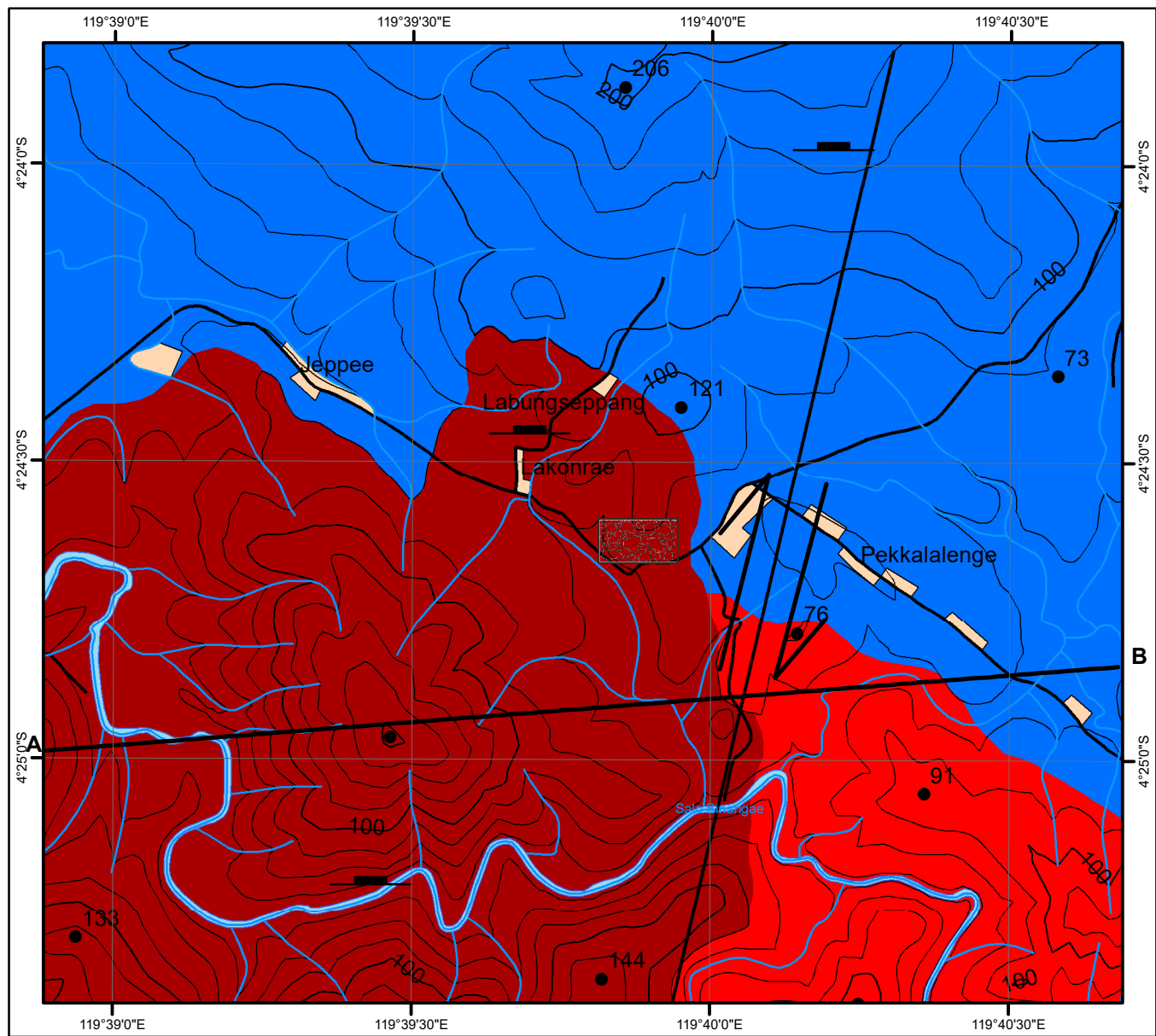
Kendari, Desember 07, 2023

Approved By,

Syahanuddin Bahri, Md
Laboratory Manager

- This report refers to the tested sample only and reflects our finding at the time and place of analysis only
- This report is issued without prejudice and our responsibility is limited to the exercise of due care and diligence

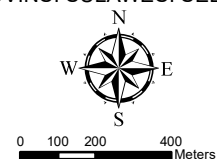
MES-5111 ST



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

PETA GEOLOGI

DAERAH JEPPEE KECAMATAN
BARRU, KABUPATEN BARRU
PROVINSI SULAWESI SELATAN



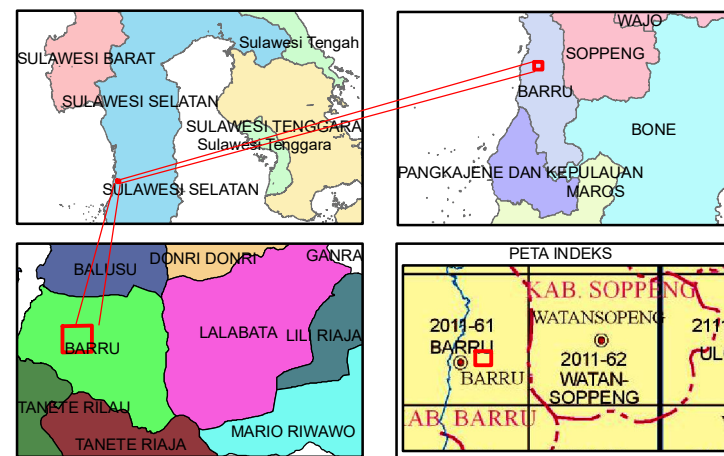
SKALA 1:20.000
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OLEH
DIABRI SAMUEL
D061181332
GOWA
2024

KETERANGAN :

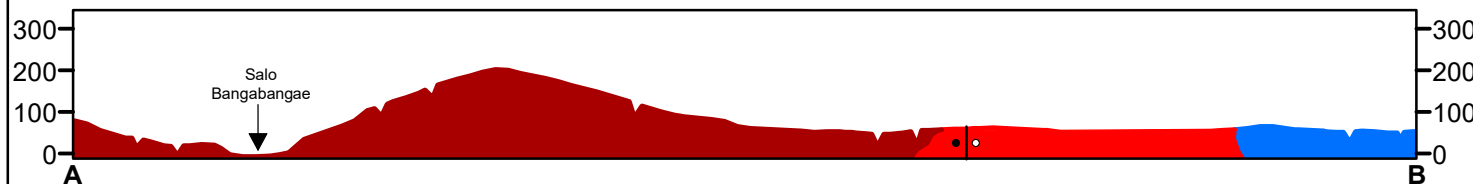
Satuan Batuan	Umur
: Dasit	: Miosen Atas
: Batugamping	: Oligosen Atas
: Peridotit	: Kapur Bawah
: Sayatan Geologi	
: Sesar Geser	
: Breksi Sesar	
: Kekar	
: Titik Ketinggian	
: Kontur	
: Sungai Utama	
: Anak Sungai	
: Jalan	
: Pemukiman	

PETA TUNJUK LOKASI PENELITIAN

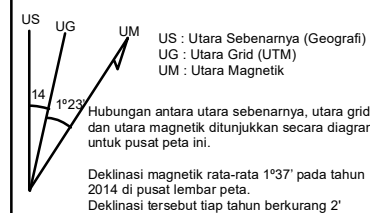


PENAMPANG GEOLOGI SAYATAN A-B

H : V = 1 : 1



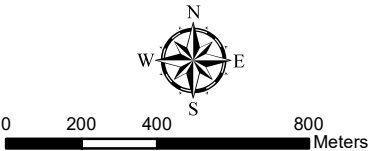
SUDUT DEKLINASI



SUMBER PETA

Peta Rupa Bumi Indonesia
Skala 1:50.000
Lembar Barru Nomor 2011-61
yang diterbitkan oleh
BAKOSURTANAL Edisi 1
Tahun 1991 dan
dimodifikasi oleh Diabri Samuel
Tahun 2024
skala 1:20.000

PETA STASIUN
DAERAH JEPPEE KECAMATAN
BARRU, KABUPATEN BARRU
PROVINSI SULAWESI SELATAN

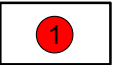


SKALA 1:20.000
IK 25 M

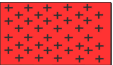
OLEH
DIABRI SAMUEL
D061181332

GOWA
2024

KETERANGAN :



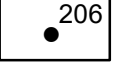
: Titik Stasiun



: Dasit



: Batuan Beku
Ultrabasa



: Titik Ketinggian



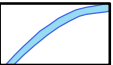
: Garis Kontur



: Sungai Kecil



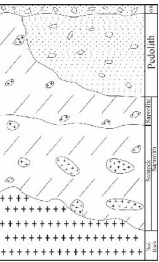
: Jalan



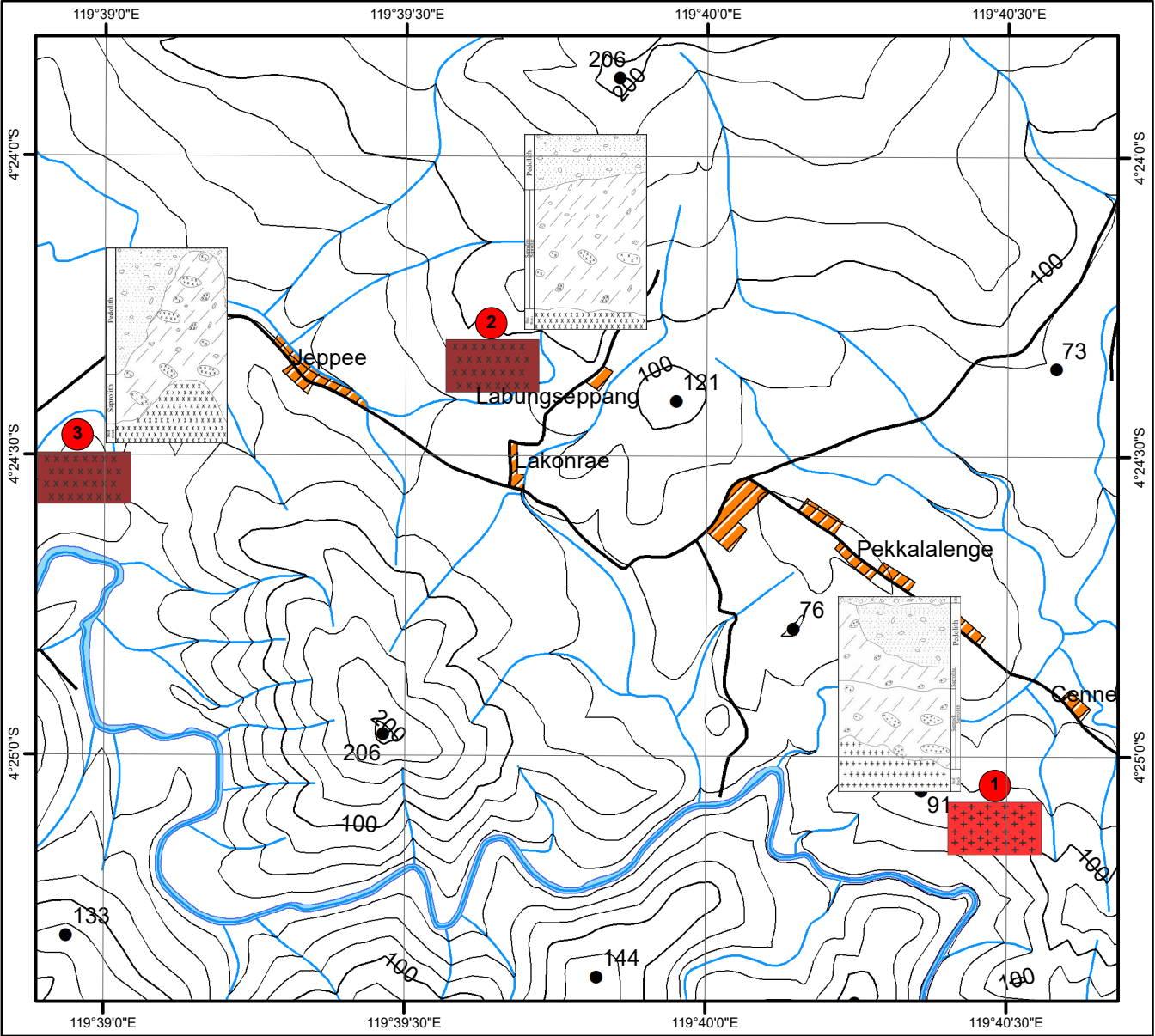
: Sungai Besar



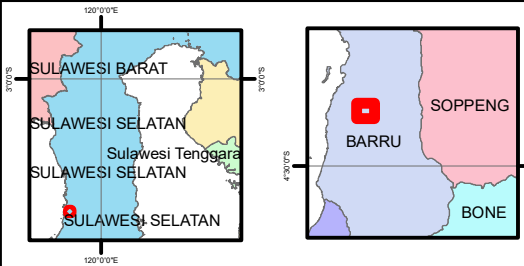
: Pemukiman



: Profil Regolith



PETA TUNJUK LOKASI PENELITIAN



PETA INDEKS



SUDUT DEKLINASI



SUMBER PETA

Peta Rupa Bumi Indonesia Skala 1:50.000
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1991 dan dimodifikasi oleh Diabri Samuel
Tahun 2024 dengan skala 1:20.000