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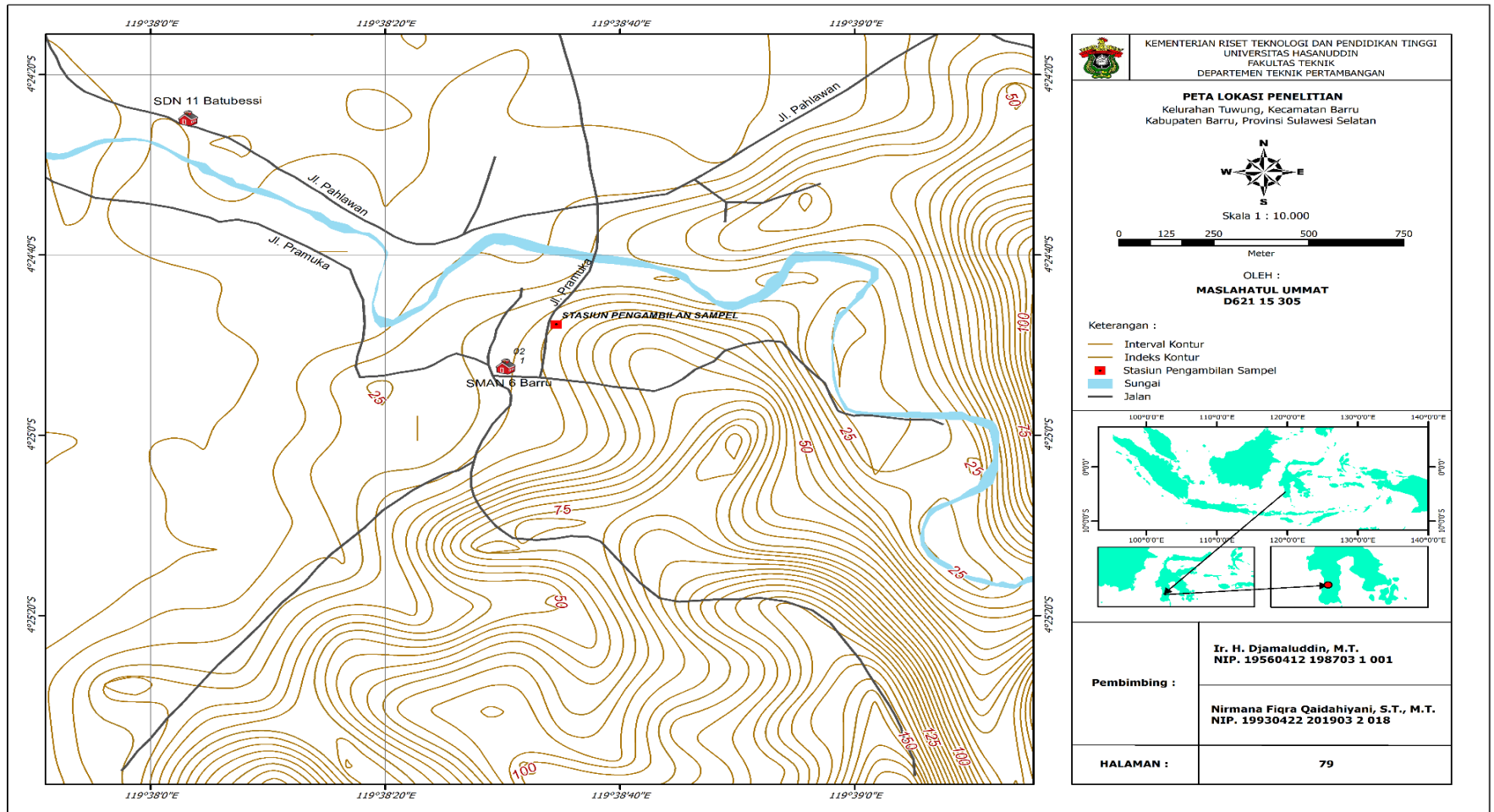
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LAMPIRAN

A. PETA LOKASI PENELITIAN



B. Lampiran Pengolahan Data Sifat Fisik

No.	Kode	W Wadah Gantung (gr)	W Natural (gr), W _n	W Kering (gr), W _o	W Jenuh (gr), W _s	W Gantung (gr), W _w
1	W I	0,5	256,6	253,3	256,9	146
2	W II	0,5	295,5	291,6	296,1	159
3	W III	0,5	204,7	200,3	205,2	112
4	W IV	0,5	132,3	126,6	131,6	70

No	Kode	Densitas Natural	Densitas Kering	Densitas Jenuh	Kadar Air	Derajat Kejenuhan	Porositas	Nisbah Rongga
1	W I	2,313796213	2,284039675	2,316501353	0,01302803	0,916666667	0,032461677	0,033550792
2	W II	2,15536105	2,126914661	2,159737418	0,013374486	0,866666667	0,032822757	0,033936652
3	W III	2,196351931	2,149141631	2,201716738	0,021967049	0,897959184	0,052575107	0,055492639
4	W IV	2,147727273	2,055194805	2,136363636	0,045023697	1,14	0,081168831	0,088339223

C. Lampiran Pengolahan Data Uji Kuat Tekan Uniaksial

No.	Kode	Litologi	Length (mm)			
			1	2	3	Rata-rata
1	W I (a)	<i>Peridotit</i>	102	102,1	101,83	101,9766667
3	W II (a)	<i>Peridotit</i>	88,7	99,89	99,72	96,10333333
5	W III (a)	<i>Peridotit</i>	88,42	88,33	88,35	88,36666667
7	W IV (a)	<i>Peridotit</i>	87,82	88,39	88,11	88,10666667

Diameter (mm)				L/D	Luas penampang (mm ²)
1	2	3	Rata-rata		
43,28	43,25	43,31	43,28	2,35620764	4413,550133
43,23	43,56	43,23	43,34	2,217428088	4165,118467
43,45	43,48	43,35	43,42666667	2,03484802	3837,469778
42,73	42,26	42,33	42,44	2,076028904	3739,246933

Data Aksial

Force (KN)	Sampel			
	W I	W II	W III	W IV
5	150	140	360	130
10	305	320	418	425
15	310	330	445	442
20	320	336	455	447
25	325	340	460	453
30	340	342	465	459
35	345	343	475	462
40	348	349	478	470
45	350	350	480	478
50	352	355	485	492
55	353	358	495	
60	355	360	496	
65	360	362		
70	360	465		
75	360	470		
80	360	475		
85	365	480		
90	365	480		
95	365	480		
100	365	480		
105	366	480		
110	366	480		
115	366	480		

120	400	490
125	400	490
130	400	490
135	511	510
140	511	510
145	511	510
150	580	510
155	580	
160	595	

Data Lateral 1

Force (kN)	Sampel			
	W I	W II	W III	W IV
5	15	-10	-1	0
10	50	-15	-60	1
15	48	-15	-65	1
20	47	-17	-65	1
25	47	-18	-66	1
30	47	-18	-67	2
35	49	-18	-69	3
40	50	-15	-69	3
45	50	-15	-69	3
50	50	-15	-30	3
55	51	-15	-31	3
60	51	-15	-31	
65	51	-15		
70	51	-15		
75	52	-15		
80	50	-15		
85	50	-15		
90	50	-15		
95	50	-15		
100	49	-15		
105	49	-15		
110	49	-15		
115	49	-15		
120	48	-15		
125	47	-15		
130	47	-15		
135	46	-15		
140	46	-15		
145	46	-15		
150	46	-15		

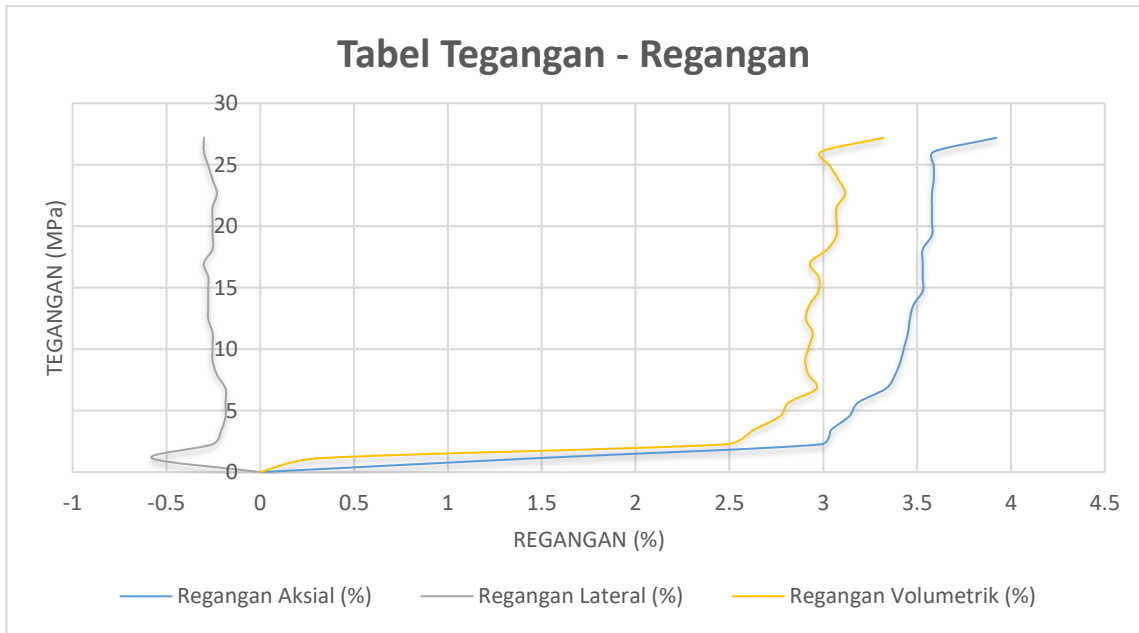
155	46
160	46

Data Lateral 2

Force (kN)	Sampel			
	W I	W II	W III	W IV
5	10	15	4	14
10	-39	32	45	14
15	-39	36	50	14
20	-39	40	50	14
25	-39	40	50	14
30	-39	40	50	14
35	-39	42	50	14
40	-39	43	53	14
45	-39	45	53	14
50	-39	46	52	14
55	-39	47	50	14
60	-39	47	50	
65	-39	48		
70	-39	50		
75	-39	50		
80	-39	50		
85	-39	51		
90	-39	52		
95	-39	52		
100	-39	52		
105	-38	54		
110	-37	54		
115	-36	55		
120	-35	55		
125	-35	55		
130	-34	56		
135	-33	57		
140	-33	59		
145	-32	59		
150	-32	60		
155	-31			
160	-30			

Sampel I

Tegangan (MPa)	Regangan Aksial (%)	L1 + L2	Regangan Lateral (%)	Regangan Volumetrik (%)
0	0	0	0	0
1,132874862	1,470924721	0,25	-0,577634011	0,315656699
2,265749725	2,990880267	0,11	-0,254158965	2,482562337
3,398624587	3,039911091	0,09	-0,207948244	2,624014603
4,53149945	3,137972739	0,08	-0,184842884	2,768286972
5,664374312	3,187003563	0,08	-0,184842884	2,817317796
6,797249174	3,334096035	0,08	-0,184842884	2,964410268
7,930124037	3,383126859	0,1	-0,231053604	2,92101965
9,062998899	3,412545354	0,11	-0,254158965	2,904227424
10,19587376	3,432157683	0,11	-0,254158965	2,923839753
11,32874862	3,451770013	0,11	-0,254158965	2,943452083
12,46162349	3,461576178	0,12	-0,277264325	2,907047527
13,59449835	3,481188507	0,12	-0,277264325	2,926659857
14,72737321	3,530219331	0,12	-0,277264325	2,975690681
15,86024807	3,530219331	0,12	-0,277264325	2,975690681
16,99312294	3,530219331	0,13	-0,300369686	2,92947996
18,1259978	3,530219331	0,11	-0,254158965	3,021901401
19,25887266	3,579250155	0,11	-0,254158965	3,070932226
20,39174752	3,579250155	0,11	-0,254158965	3,070932226
21,52462239	3,579250155	0,11	-0,254158965	3,070932226
22,65749725	3,579250155	0,1	-0,231053604	3,117142946
23,79037211	3,58905632	0,11	-0,254158965	3,08073839
24,92324697	3,58905632	0,12	-0,277264325	3,034527669
26,05612184	3,58905632	0,13	-0,300369686	2,988316949
27,1889967	3,922465924	0,13	-0,300369686	3,321726552
28,32187156	3,922465924	0,12	-0,277264325	3,367937273
29,45474642	3,922465924	0,13	-0,300369686	3,321726552
30,58762128	5,010950217	0,13	-0,300369686	4,410210846
31,72049615	5,010950217	0,13	-0,300369686	4,410210846
32,85337101	5,010950217	0,14	-0,323475046	4,364000125
33,98624587	5,687575589	0,14	-0,323475046	5,040625497
35,11912073	5,687575589	0,15	-0,346580407	4,994414776
36,2519956	5,834668061	0,16	-0,369685767	5,095296527

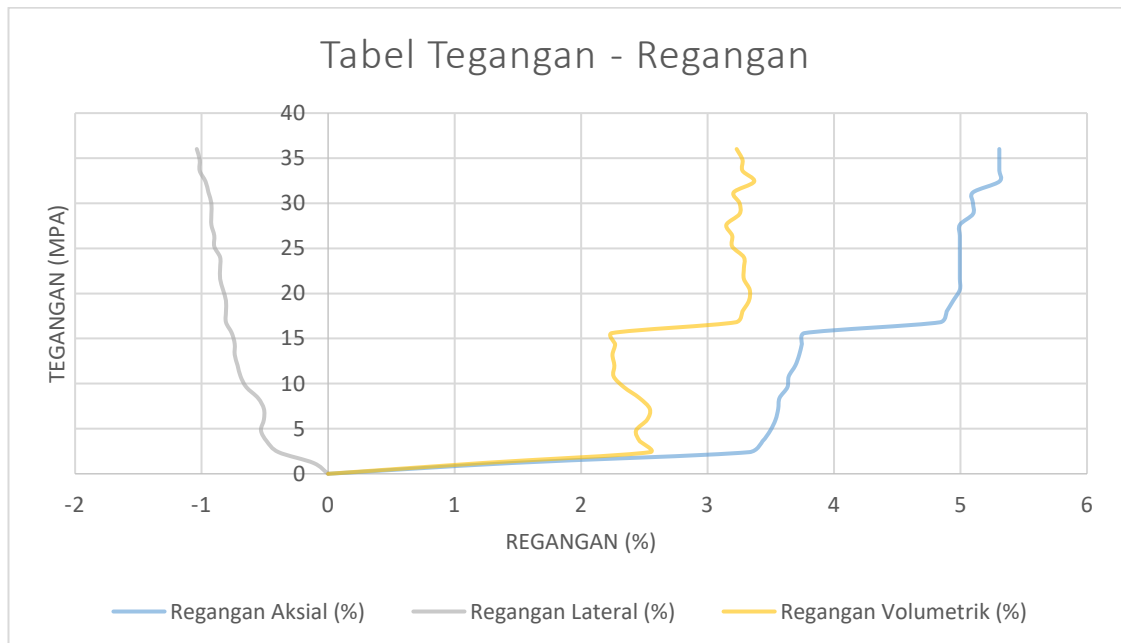


s_c (MPa)	36,252
E (MPa)	7553,676
U	0,453117

Sampel II

Tegangan (MPa)	Regangan Aksial (%)	L1 + L2	Regangan Lateral (%)	Regangan Volumetrik (%)
0	0	0	0	0
1.200446047	1.456765287	0.05	-0.115366867	1.226031554
2.400892095	3.329749228	0.17	-0.392247347	2.545254535
3.601338142	3.433803892	0.21	-0.48454084	2.464722212
4.801784189	3.49623669	0.23	-0.530687587	2.434861517
6.002230237	3.537858555	0.22	-0.507614213	2.522630129
7.202676284	3.558669488	0.22	-0.507614213	2.543441061
8.403122331	3.569074954	0.24	-0.55376096	2.461553034
9.603568379	3.631507752	0.28	-0.646054453	2.339398846
10.80401443	3.641913218	0.3	-0.6922012	2.257510819
12.00446047	3.69394055	0.31	-0.715274573	2.263391404
13.20490652	3.725156949	0.32	-0.738347946	2.248461056
14.40535257	3.745967882	0.32	-0.738347946	2.269271989
15.60579862	3.766778814	0.33	-0.76142132	2.243936175
16.80624466	4.838541847	0.35	-0.807568066	3.223405714
18.00669071	4.890569179	0.35	-0.807568066	3.275433046
19.20713676	4.942596511	0.35	-0.807568066	3.327460378
20.4075828	4.994623842	0.36	-0.83064144	3.333340963
21.60802885	4.994623842	0.37	-0.853714813	3.287194216

22.8084749	4.994623842	0.37	-0.853714813	3.287194216
24.00892095	4.994623842	0.37	-0.853714813	3.287194216
25.20936699	4.994623842	0.39	-0.89986156	3.194900723
26.40981304	4.994623842	0.39	-0.89986156	3.194900723
27.61025909	4.994623842	0.4	-0.922934933	3.148753976
28.81070514	5.098678506	0.4	-0.922934933	3.25280864
30.01115118	5.098678506	0.4	-0.922934933	3.25280864
31.21159723	5.098678506	0.41	-0.946008306	3.206661893
32.41204328	5.306787833	0.42	-0.96908168	3.368624473
33.61248933	5.306787833	0.44	-1.015228426	3.27633098
34.81293537	5.306787833	0.44	-1.015228426	3.27633098
36.01338142	5.306787833	0.45	-1.0383018	3.230184233

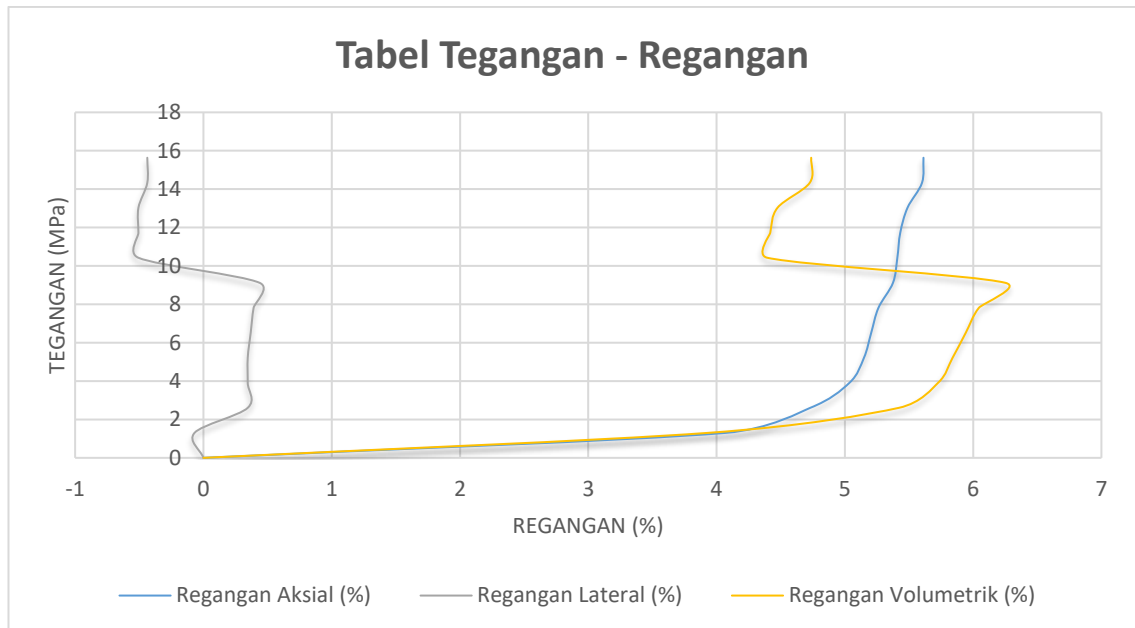


s_c (MPa)	36.01338
E (MPa)	3461,005
u	0,813056

Sampel III

Tegangan (MPa)	Regangan Aksial (%)	L1 + L2	Regangan Lateral (%)	Regangan Volumetrik (%)
0	0	0	0	0
1.302941857	4.073934364	0.03	-0.069081977	3.93577041
2.605883715	4.730290456	-0.15	0.345409886	5.421110229
3.908825572	5.035835534	-0.15	0.345409886	5.726655307
5.21176743	5.149000377	-0.15	0.345409886	5.83982015
6.514709287	5.205582799	-0.16	0.368437212	5.942457223

7.817651144	5.262165221	-0.17	0.391464538	6.045094297
9.120593002	5.375330064	-0.19	0.437519189	6.250368443
10.42353486	5.409279517	0.22	-0.506601167	4.396077184
11.72647672	5.431912486	0.22	-0.506601167	4.418710152
13.02941857	5.488494908	0.22	-0.506601167	4.475292574
14.33236043	5.601659751	0.19	-0.437519189	4.726621372
15.63530229	5.612976235	0.19	-0.437519189	4.737937857

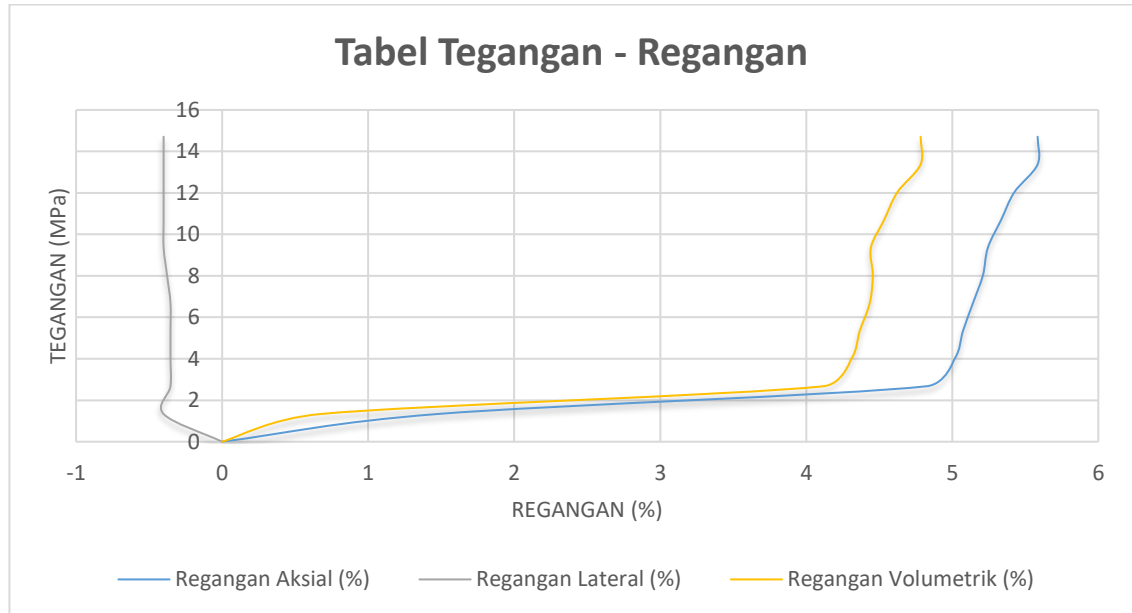


s_c (MPa)	15.63530229
E (MPa)	2031.822861
u	1.356565346

Sampel IV

Tegangan (MPa)	Regangan Aksial (%)	L1 + L2	Regangan Lateral (%)	Regangan Volumetrik (%)
0	0	0	0	0
1.337167641	1.475484262	0.17	-0.400565504	0.674353253
2.674335281	4.823698547	0.15	-0.353440151	4.116818246
4.011502922	5.016646489	0.15	-0.353440151	4.309766188
5.348670563	5.073395884	0.15	-0.353440151	4.366515582
6.685838204	5.141495157	0.15	-0.353440151	4.434614856
8.023005844	5.209594431	0.16	-0.377002828	4.455588776
9.360173485	5.243644068	0.17	-0.400565504	4.442513059
10.69734113	5.334443099	0.17	-0.400565504	4.533312091

12.03450877	5.425242131	0.17	-0.400565504	4.624111122
13.37167641	5.584140436	0.17	-0.400565504	4.783009427
14.70884405	5.584140436	0.17	-0.400565504	4.783009427



s_c (MPa)	14.70884405
E (MPa)	1885.014138
ν	1,749591185

D. Komposisi X-Ray Diffraction

Sampel I

Sample : W1
Operator: Sufriadin
Comment : Quick&easy Air-Metal
Group : easy-oxide
Date : 2020-03-06 15:21:07

Quantitative Result

Analyte	Result	[3-sigma]	Proc.-Calc.	Line	Int. (cps/uA)
SiO2	70.554 %	[1.178]	Quan-FP	SiKa	0.8044
Fe2O3	25.589 %	[0.088]	Quan-FP	FeKa	223.7375
NiO	1.427 %	[0.020]	Quan-FP	NiKa	11.5223
CaO	1.204 %	[0.023]	Quan-FP	CaKa	0.5594
Cr2O3	0.775 %	[0.016]	Quan-FP	CrKa	4.8564
MnO	0.451 %	[0.009]	Quan-FP	MnKa	3.5369

Sampel II

Sample : W2
Operator: Sufriadin
Comment : Quick&easy Air-Metal
Group : easy-oxide
Date : 2020-03-06 15:29:16

Quantitative Result

Analyte	Result	[3-sigma]	Proc.-Calc.	Line	Int. (cps/uA)
SiO2	69.836 %	[1.159]	Quan-FP	SiKa	0.7376
Fe2O3	25.822 %	[0.090]	Quan-FP	FeKa	207.4256
NiO	1.384 %	[0.020]	Quan-FP	NiKa	10.3006
CaO	1.324 %	[0.023]	Quan-FP	CaKa	0.5706
Cr2O3	0.974 %	[0.018]	Quan-FP	CrKa	5.6384
SO3	0.368 %	[0.067]	Quan-FP	S Ka	0.0192
MnO	0.293 %	[0.015]	Quan-FP	MnKa	2.1267

Sampel III

Sample : W3
Operator: Sufriadin
Comment : Quick&easy Air-Metal
Group : easy-oxide
Date : 2020-03-06 15:36:37

Quantitative Result

Analyte	Result	[3-sigma]	Proc.-Calc.	Line	Int. (cps/uA)
SiO2	69.625 %	[1.206]	Quan-FP	SiKa	0.7704
Fe2O3	26.935 %	[0.093]	Quan-FP	FeKa	231.0088
NiO	1.446 %	[0.021]	Quan-FP	NiKa	11.1890
CaO	1.237 %	[0.024]	Quan-FP	CaKa	0.5637
Cr2O3	0.457 %	[0.012]	Quan-FP	CrKa	2.8254
MnO	0.299 %	[0.015]	Quan-FP	MnKa	2.2856

Sampel IV

Sample : W4
Operator: Sufriadin
Comment : Quick&easy Air-Metal
Group : easy-oxide
Date : 2020-03-06 15:43:45

Quantitative Result

Analyte	Result	[3-sigma]	Proc.-Calc.	Line	Int. (cps/uA)
SiO2	62.695 %	[1.249]	Quan-FP	SiKa	0.7754
Fe2O3	31.394 %	[0.096]	Quan-FP	FeKa	319.4016
NiO	4.647 %	[0.040]	Quan-FP	NiKa	38.9017
CaO	0.578 %	[0.016]	Quan-FP	CaKa	0.3194
Cr2O3	0.361 %	[0.009]	Quan-FP	CrKa	2.7598
MnO	0.325 %	[0.014]	Quan-FP	MnKa	2.9869

Lampiran B 10
Kartu Konsultasi Tugas Akhir

JUDUL: studi pengaruh derajat pelapukan terhadap kekuatan batuan pada batuan peridotit

(Konsultasi minimal 8 kali)

TANGGAL	MATERI KONSULTASI	PARAF DOSEN
3/09/20	koreksi BAB I	فقر
26/09/20	koreksi BAB I perbaiki rumusan masalah perbaiki manfaat penelitian	فقر
9/10/20	koreksi BAB I perbaiki seluruh bab I	فقر
31/10/20	perbaiki BAB I	فقر
22/12/20	koreksi BAB II	فقر
24/12/20	koreksi BAB II	فقر
6/01/21	koreksi BAB III	فقر
11/01/21	koreksi BAB III koreksi BAB IV	فقر
24/01/21	rumusan masalah koreksi BAB III, IV	فقر
29/01/21	Tinjau ulang dari BAB I-V ACC	فقر