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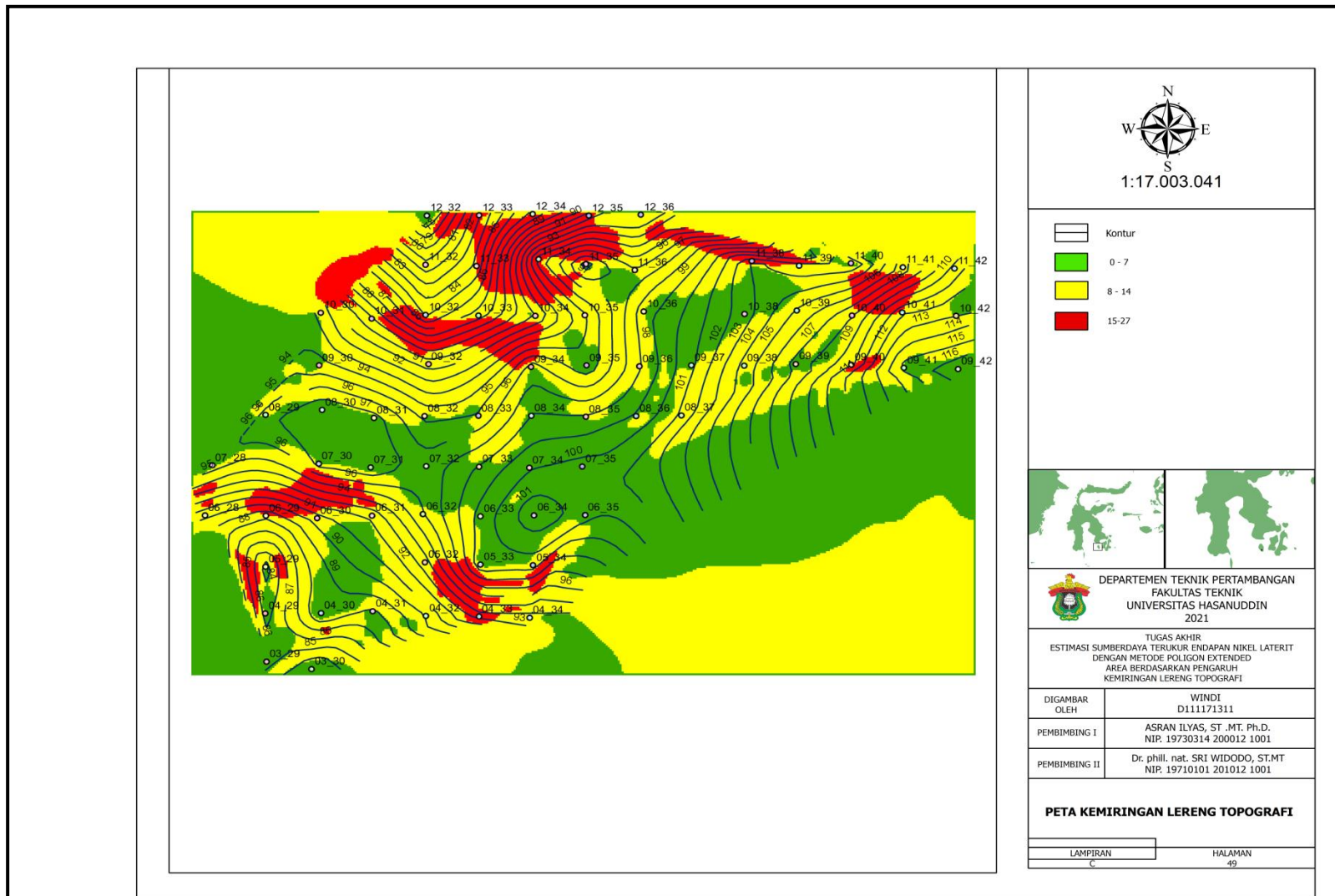
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LAMPIRAN

LAMPIRAN A
PETA SEBARAN TITIK BOR

Lampiran A

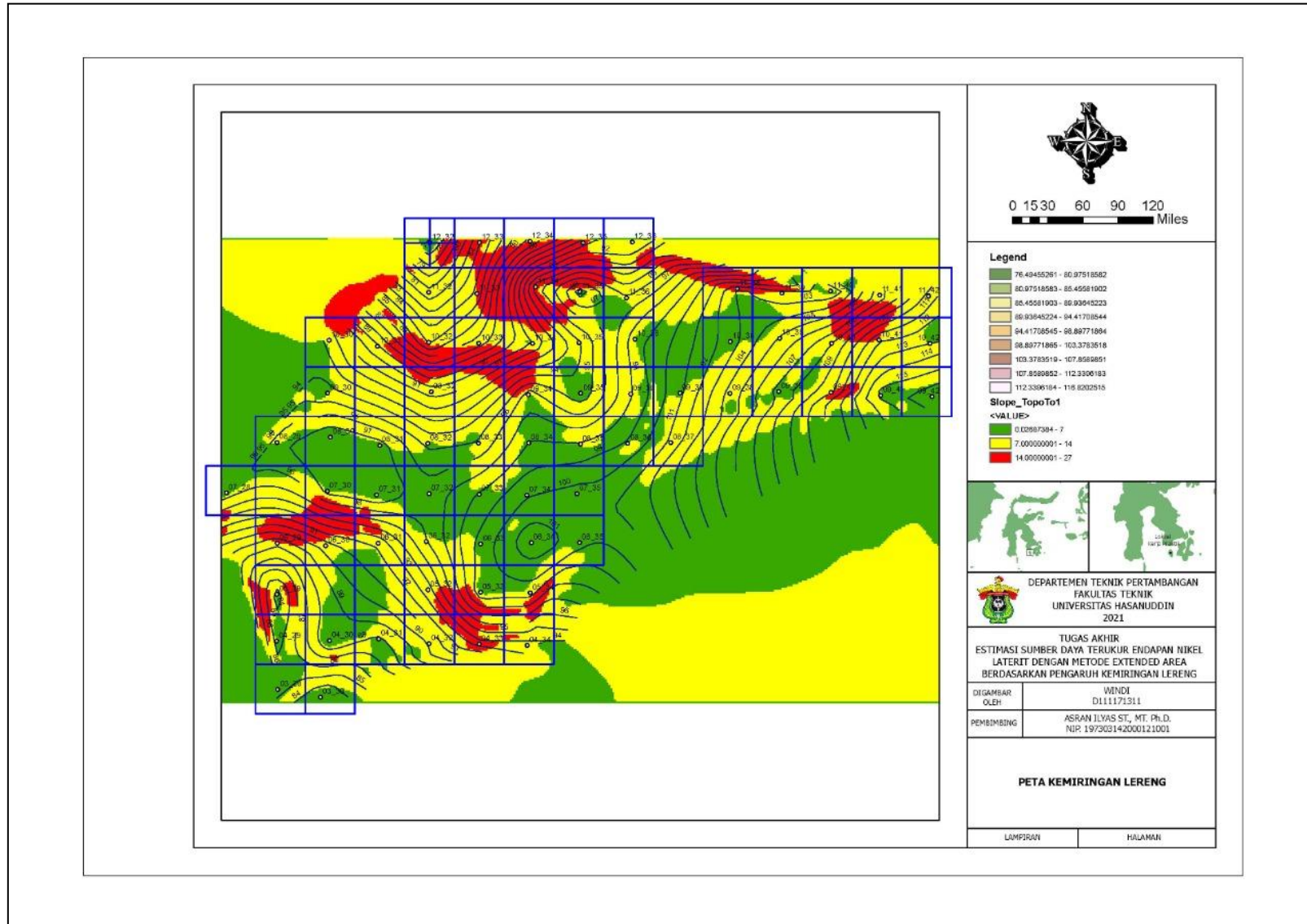
PETA SEBARAN TITIK BOR



LAMPIRAN B
PETA KEMIRINGAN LERENG TOPOGRAFI

Lampiran B

PETA KEMIRINGAN LERENG TOTPOGRAFI



LAMPIRAN C
DATA *COLLAR*

Lampiran C

Data Collar

HID	X	Y	Z	DEPTH
12_35	375276.6346	9405999.4	90.46426748	5
12_36	375301.0721	9405999.835	90.69744198	7
12_33	375225.2382	9405999.541	82.05959135	5
12_34	375250.264	9406000.179	85.94234628	7.2
12_32	375200.6962	9405999.504	75.70004557	14
11_32	375200.1038	9405974.983	80.32419526	31
10_30	375150.9099	9405951.097	92.60111235	11.4
11_33	375223.9794	9405974.304	83.20181063	12
10_31	375174.7276	9405948.135	89.1616819	16
10_32	375200.0959	9405950.037	83.83725285	44
10_33	375224.9308	9405949.588	86.4981994	31
10_34	375251.5426	9405949.529	89.93840386	29
10_35	375274.7325	9405949.835	93.83489239	18
10_36	375302.3867	9405951.642	98.67583648	16
11_34	375253.0734	9405977.666	94.78623271	20
10_38	375349.7319	9405950.426	102.4717292	13
11_35	375275.1915	9405975.19	98.67505646	11
10_39	375374.1607	9405952.07	105.1455746	19
11_36	375298.1956	9405972.244	96.15251102	10
11_38	375353.1804	9405976.755	103.2145678	7.4
10_40	375400.1028	9405949.601	107.9996489	23.5
11_39	375375.3512	9405974.484	102.2776565	8

11_40	3.753.996.631	9.405.975.635	1.020.813.187	11
10_41	3.754.236.545	9.405.951.223	1.119.124.051	22
11_41	3.754.239.711	9.405.973.628	1.062.054.515	16
10_42	3.754.489.602	9.405.949.428	1.130.256.056	12
11_42	3.754.481.862	9.405.973.061	110.35	10
09_40	3.753.998.361	9.405.925.092	109.731.707	26
09_42	3.754.499.127	9.405.923.016	1.166.182.965	20
09_41	3.754.244.213	9.405.923.556	1.155.943.696	25
09_38	375.349.505	9.405.924.628	1.043.959.424	19.2
09_39	3.753.737.939	9.405.925.528	1.074.282.635	8
09_37	3.753.247.559	9.405.924.892	1.007.914.177	23
08_37	3.753.201.001	9.405.899.946	1.011.829.954	33
09_36	375.300.334	9.405.924.331	9.790.601.752	28
08_36	3.752.988.241	9.405.899.548	9.908.927.176	20
09_35	3.752.755.063	9.405.924.784	9.417.271.207	14
08_35	3.752.753.228	9.405.899.242	9.813.645.602	17
09_34	3.752.495.494	9.405.923.991	9.666.455.828	20
09_32	375.201.402	9.405.925.419	9.057.838.236	16
08_34	3.752.497.453	9.405.899.769	9.808.205.357	14
08_33	3.752.248.079	9.405.899.733	9.511.167.803	13
08_32	3.751.996.067	9.405.899.554	9.475.650.222	13
09_30	3.751.501.232	9.405.924.768	9.442.344.906	22
08_31	3.751.758.105	9.405.898.701	9.750.749.673	12
07_28	3.750.999.803	9.405.875.013	9.571.291.386	14
08_30	375.151.492	9.405.902.668	9.793.917.858	13
07_29	12	-90	0	12

08_29	3.751.249.858	9.405.900.105	9.679.864.507	15
07_30	375.149.923	9405875.82	974.264.917	22
06_28	3.750.966.129	9.405.850.055	9.014.923.727	13
06_29	3.751.251.691	9.405.849.959	8.820.719.079	7
07_31	3.751.742.372	9405874.01	9.794.544.574	30.5
06_30	3.751.492.006	9.405.848.698	904.929.863	9
07_32	3.752.003.018	9.405.874.525	9.646.682.093	21
06_31	3.751.750.063	9.405.849.966	9.218.837.911	23
07_33	3.752.251.728	9.405.874.358	9.812.505.844	19
06_32	3.751.988.049	9.405.850.752	959.755.098	14
07_34	3.752.487.941	9.405.873.829	9.991.494.127	33
06_33	375.225.818	9.405.849.584	9.942.542.802	13
07_35	3.752.736.258	9.405.874.515	1.004.178.225	44
06_34	3.752.509.871	9405850.17	1.019.293.968	42
05_34	3.752.504.325	9.405.825.227	9.947.475.059	33
06_35	3.752.749.065	9.405.850.243	1.004.817.227	35
05_33	3.752.257.886	9.405.825.523	9.982.062.072	26.5
04_34	3.752.489.119	9405799.1	9.356.344.798	17
05_32	3.751.997.919	9.405.826.749	9.355.101.452	24
05_29	3.751.249.518	9.405.824.481	8.343.931.602	8
04_29	375.124.829	9.405.801.182	8.451.932.749	7
04_33	375.225.121	9.405.799.718	9.350.990.126	25
04_32	3.752.002.118	9.405.799.992	8.998.701.025	19
03_29	3.751.253.904	9.405.777.267	8.587.534.223	23
03_30	3.751.465.602	9405773.51	8.271.662.727	25

04_30	3.751.510.476	9.405.801.472	8.914.287.814	21
04_31	3.751.752.988	9.405.802.306	8.776.115.268	15

LAMPIRAN D
DATA *ASSAY*

Lampiran D

Data *ASSAY*

HID	FR	TO	NI	FE
12_35	0	0.45	0.69	14.366
12_35	0.45	1	0.55	12.834
12_35	1	1.45	0.43	11.449
12_35	1.45	2	0.3	8.938
12_35	2	3	0.28	8.085
12_35	3	3.5	0.26	6.497
12_35	3.5	4	0.25	5.308
12_35	4	5	0.24	5.679
12_36	0	1	0.34	12.337
12_36	1	2	0.37	12.603
12_36	2	3	0.31	11.4
12_36	3	4	0.18	6.001
12_36	4	5	0.28	7.595
12_36	5	6	0.24	7.064
12_36	6	7	0.24	6.938
12_33	0	0.54	1.77	23.801
12_33	0.54	1	1.36	17.856
12_33	1	1.19	1.64	22.577
12_33	1.19	2	0.24	3.959
12_33	2	3	0.16	2.777
12_33	3	4	0.26	3.112
12_33	4	5	0.15	1.874
12_34	0	1	1.4	23.745
12_34	1	2	0.47	7.099
12_34	2	2.4	0.61	12.086
12_34	2.4	3	0.51	11.904
12_34	3	4	0.29	8.784
12_34	4	5	0.2	5.875
12_34	5	6	0.14	2.951

LAMPIRAN E
DATA *SURVEY*

Lampiran E

Data Survey

HID	DEPTH	DIP	AZ
12_35	5	-90	0
12_36	7	-90	0
12_33	5	-90	0
12_34	7.2	-90	0
12_32	14	-90	0
11_32	31	-90	0
10_30	11.4	-90	0
11_33	12	-90	0
10_31	16	-90	0
10_32	44	-90	0
10_33	31	-90	0
10_34	29	-90	0
10_35	18	-90	0
10_36	16	-90	0
11_34	20	-90	0
10_38	13	-90	0
11_35	11	-90	0
10_39	19	-90	0
11_36	10	-90	0
11_38	7.4	-90	0
10_40	23.5	-90	0
11_39	8	-90	0
11_40	11	-90	0
10_41	22	-90	0
11_41	16	-90	0
10_42	12	-90	0
11_42	10	-90	0
09_40	26	-90	0
09_42	20	-90	0

HID	DEPTH	DIP	AZ
09_38	19.2	-90	0
09_39	8	-90	0
09_37	23	-90	0
08_37	33	-90	0
09_36	28	-90	0
08_36	20	-90	0
09_35	14	-90	0
08_35	17	-90	0
09_34	20	-90	0
09_32	16	-90	0
08_34	14	-90	0
08_33	13	-90	0
08_32	13	-90	0
09_30	22	-90	0
08_31	12	-90	0
07_28	14	-90	0
08_30	13	-90	0
07_29	12	-90	0
08_29	15	-90	0
07_30	22	-90	0
06_28	13	-90	0
06_29	7	-90	0
07_31	30.5	-90	0
06_30	9	-90	0
07_32	21	-90	0
06_31	23	-90	0
07_33	19	-90	0
06_32	14	-90	0
07_34	33	-90	0
06_33	13	-90	0
07_35	44	-90	0
06_34	42	-90	0
05_34	33	-90	0

HID	DEPTH	DIP	AZ
06_35	35	-90	0
05_33	26.5	-90	0
04_34	17	-90	0
05_32	24	-90	0
05_29	8	-90	0
04_29	7	-90	0
04_33	25	-90	0
04_32	19	-90	0
03_29	23	-90	0
03_30	25	-90	0
04_30	21	-90	0
04_31	15	-90	0

LAMPIRAN F
DATA *LITHOLOGY*

Lampiran F

Data *Lithology*

HID	FR	TO	LITH
12_35	0	0.45	Limo
12_35	0.45	1	Limo
12_35	1	1.45	Sapr
12_35	1.45	2	Sapr
12_35	2	3	Sapr
12_35	3	3.5	Sapr
12_35	3.5	4	Sapr
12_35	4	5	Sapr
12_36	0	1	Limo
12_36	1	2	Limo
12_36	2	3	Sapr
12_36	3	4	Sapr
12_36	4	5	Sapr
12_36	5	6	Sapr
12_36	6	7	Sapr
12_33	0	0.54	Limo
12_33	0.54	1	Limo
12_33	1	1.19	Limo
12_33	1.19	2	Limo
12_33	2	3	Limo
12_33	3	4	Limo
12_33	4	5	Limo
12_34	0	1	Limo
12_34	1	2	Limo
12_34	2	2.4	Sapr
12_34	2.4	3	Sapr
12_34	3	4	Sapr
12_34	4	5	Sapr
12_34	5	6	Sapr
12_34	6	7	Sapr

LAMPIRAN G
PERHITUNGAN TONASE SUMBERDAYA

Lampiran G

Perhitungan tonase sumberdaya

Perhitungan tonase sumberdaya pada kemiringan lereng 0-7° adalah sebagai berikut:

1. Titik bor (12_32)

Blok 1A :

1. Lereng Hijau

$$\begin{aligned}\text{Volume} &= \text{Luas} \times \text{persentase kemiringan} \times \text{Tebal saprolit} \\ &= 156,25 \text{ m}^2 \times 20\% \times 10,55 \text{ m} \\ &= 329,6875 \text{ m}^3\end{aligned}$$

$$\begin{aligned}\text{Tonase biji} &= \text{Volume} \times \text{densitas} \\ &= 329,6875 \text{ m}^3 \times 1.56 \text{ kg/m}^3 \\ &= 514,3125 \text{ kg} \\ &= 0,51 \text{ ton}\end{aligned}$$

2. Lereng merah

$$\begin{aligned}\text{Volume} &= \text{Luas} \times \text{persentase kemiringan} \times \text{Tebal saprolit} \\ &= 156,25 \text{ m}^2 \times 30\% \times 10 \text{ m} \\ &= 468,75 \text{ m}^3\end{aligned}$$

$$\begin{aligned}\text{Tonase biji} &= \text{Volume} \times \text{densitas} \\ &= 468,75 \text{ m}^3 \times 1.56 \text{ kg/m}^3 \\ &= 731,25 \text{ kg} \\ &= 0,73 \text{ ton}\end{aligned}$$

3. Lereng kuning

$$\begin{aligned}\text{Volume} &= \text{Luas} \times \text{persentase kemiringan} \times \text{Tebal saprolit} \\ &= 156,25 \text{ m}^2 \times 50\% \times 28,5 \text{ m} \\ &= 2.226,5625 \text{ m}^3\end{aligned}$$

$$\begin{aligned}\text{Tonase biji} &= \text{Volume} \times \text{densitas} \\ &= 2.226,5625 \text{ m}^3 \times 1.56 \text{ kg/m}^3 \\ &= 3,473,4375 \text{ kg} \\ &= 3,47 \text{ ton}\end{aligned}$$

LAMPIRAN H
PERHITUNGAN RATA-RATA KOMPOSIT

Lampiran H

Perhitungan rata-rata komposit kemiringan lereng 0° - 7°

Perhitungan rata-rata komposit kemiringan lereng 0° - 7° adalah sebagai berikut:

1. Titik bor (12_32)

$$\begin{aligned} \text{Rata-rata komposit} &= [1,11\% \times (4-3,45)] + [1,68\% \times (4,5-4)] + [0,89\% \times (5- \\ & 4,5)] + [1,6\% \times (6-5)] + [1,27\% \times (6,52-6)] + [0,67\% \\ & \times (7-6,52)] + [0,8\% \times (8-7)] + [0,28\% \times (9-8)] + \\ & [0,42\% \times (10-9)] + [0,32\% \times (11-10)] + [0,8\% \times (12- \\ & 11)] + [0,45\% \times (13-12)] + [0,14\% \times (14-13)] \\ & \hline & (3-3,45) + (4,5-4) + (5-4,5) + (6-5) + (6,52-6) + (7- \\ & 6,52) + (8-7) + (9-8) + (10-9) + (11-10) + (12-11) + \\ & (13-12) + (14-13) \\ & = 0,80\% \end{aligned}$$

$$\begin{aligned} \text{Tonase logam Ni} &= \text{Tonase sumberdaya} \times \text{kadar rata-rata komposit Ni} \\ &= 0,51 \text{ ton} \times 0,80\% \\ &= 0,51 \times 0,0008 \\ &= 0,000408 \text{ ton} \end{aligned}$$

LAMPIRAN I

HASIL PERHITUNGAN SUMBERDAYA

Tabel Hasil perhitungan sumberdaya terukur

No.	No. blok	Hole_ID	Kadar rata-rata		Tonase sumberdaya terukur (ton)				
			komposit Ni (zona saprolit)	H (0°-7°)	Hole_id	K (8°-14°)	Hole_id	M (15°-27°)	Hole_id
1.	1A	12_32	0,80%	0,51 ton	12_32A	3,47 ton	11_32B	0,73 ton	12_33C
2.	2A	10_38	0,22%	2,15 ton	10_38A	1,03 ton	10_39B	-	-
3.	3A	11_35	0,20%	0,19 ton	11_35A	0,84 ton	11_36B	1,86 ton	11_34C
4.	4A	11_40	0,25%	0,33 ton	11_40 A	-	-	0,16 ton	11_38C
5.	5A	09_42	0,25%	2,53 ton	09_42A	0,68 ton	10_42B	-	-
6.	6A	09_41	0,94%	1,76 ton	09_41A	3,01 ton	09_40B	0,82 ton	11_38C
7.	7A	09_37	0,89%	2,19 ton	09_37A	1,64 ton	09_38B	-	-
8.	8A	08_36	1,83%	2,13 ton	08_36A	0,85 ton	09_36B	-	-
9.	9A	09_35	3,88%	0,74 ton	09_35A	3,15 ton	09_34B	-	-
10.	10A	08_35	2,17%	1,60 ton	08_35A	1,53 ton	09_36B	-	-
11.	11A	08_34	1,05%	1,62 ton	08_34A	0,80 ton	08_33B	-	-
12.	12A	08_32	1,25%	1,32 ton	08_32A	1,07 ton	08_33B	-	-
13.	13A	09_30	0,39%	1,49 ton	09_30A	1,6 ton	10_30B	-	-

No.	No Blok	Hole_id	Kadar rata-rata		Tonase sumberdaya terukur (ton)				
			komposit Ni (zona saprolit)	H (0°-7°)	Hole_id	K (8°-14°)	Hole_id	M (15°-27°)	Hole_id
14.	14A	08_31	0,72%	1,20 ton	08_31A	1,53 ton	09_32B	-	-
15.	15A	07_28	0,40%	1,21 ton	07_28A	0,74 ton	06_30B	0,17 ton	04_33C
16.	16A	08_30	0,41%	2,09 ton	08_30A	0,79 ton	08_29B	-	-
17.	17A	07_30	0,72%	2,21 ton	07_30A	1 ton	06_31B	1,02 ton	04_33C
18.	18A	07_31	1,15%	3,20 ton	07_31A	1 ton	06_31B	0,34 ton	04_33C
19.	19A	07_32	1,17%	2,92 ton	07_32A	-	-	-	-
20.	20A	07_33	1,29%	3,07 ton	07_33A	0,80 ton	08_33B	-	-
21.	21A	07_34	1,26%	6,14 ton	07_34A	0,40 ton	08_33B	-	-
22.	22A	06_33	1,56%	1,46 ton	06_33A	0,91 ton	06_32B	-	-
22.	22A	07_35	1,92%	9,75 ton	07_35A	-	-	-	-
23.	23A	06_34	1,51%	7,68 ton	06_34A	0,47 ton	05_34B	-	-
24.	24A	06_35	1,60%	4,20 ton	06_35A	1,64 ton	05_34B	-	-
25.	25A	05_29	0,43%	0,22 ton	05_29A	0,81 ton	06_29B	0,85 ton	04_33C
26.	26A	04_29	0,38%	0,56 ton	04_29A	0,60 ton	06_29B	0,51 ton	04_33C
27.	27A	03_29	1,38%	4,29 ton	03_29A	0,71 ton	04_32B	-	-

No.	No. Blok	Hole_ID	Kadar rata-rata		Tonase sumberdaya terukur (ton)				
			komposit Ni (zona saprolit)	H (0°-7°)	Hole_id	K (8°-14°)	Hole_id	M (15°-27°)	Hole_id
28.	28A	03_30	1,08%	1,16 ton	03_30A	2,31 ton	04_32B	-	-
29.	29A	04_30	1,04%	1,36 ton	04_30A	1,95 ton	04_32B	0,17 ton	04_33C
30.	30A	04_31	1,04%	0,82 ton	04_31A	1,95 ton	04_32B	-	-
31.	1B	12_36	0,25%	0,19 ton	11_35A	0,73 ton	12_36B	0,29 ton	12_35C
32.	2B	12_34	0,25%	-	-	0,25 ton	12_34B	1,01 ton	11_34C
33.	3B	11_32	0,95%	-	-	0,25 ton	11_32B	0,12 ton	11_33C
34.	4B	10_30	0,57%	1,49 ton	09_30A	1,03 ton	10_30B	0,61 ton	10_32C
35.	5B	10_31	0,46%	-	-	2,55 ton	10_31B	2,55 ton	10_32C
36.	6B	10_33	0,60%	-	-	3,97 ton	10_33B	4,60 ton	10_32C
37.	7B	10_34	0,85%	0,75 ton	09_35A	3,34 ton	10_34B	1,94 ton	11_34C
38.	8B	10_35	0,76%	0,37 ton	09_35A	2,62 ton	10_35B	0,20 ton	11_34C
39.	9B	10_36	0,39%	0,68 ton	11_35A	2,22 ton	10_36B	-	-
40.	10B	10_39	0,27%	0,57 ton	10_38A	3,31 ton	10_39B	-	-
41.	11B	11_36	0,35%	0,48 ton	11_35A	1,22 ton	11_36B	0,97 ton	12_35C
42.	12B	10_40	0,34%	0,10 ton	11_40A	4,29 ton	10_40B	0,12 ton	11_38C

No	No. Blok	Hole_ID	Kadar rata-rata		Tonase sumberdaya terukur (ton)				
			komposit Ni (zona saprolit)	H (0°-7°)	Hole_id	K (8°-14°)	Hole_id	M (15°-27°)	Hole_id
43.	13B	10_41	0,24%	-	-	2,85 ton	10_41B	0,29 ton	11_38C
44.	14B	11_41	0,16%	0,10 ton	11_40A	1,57 ton	11_41B	0,33 ton	11_38C
45.	15B	10_42	0,27%	-	-	1,95 ton	10_42B	-	-
46.	16B	11_42	0,35%	-	-	1,85 ton	11_42B	-	-
47.	17B	09_40	0,36%	1,26 ton	09_41A	3,29 ton	09_40B	0,12 ton	11_38C
48.	18B	09_38	1,03%	0,65 ton	09_37A	2,79 ton	09_38B	-	-
49.	19B	08_37	1,50%	0,56 ton	08_36A	3,12 ton	08_37B	-	-
50.	20B	09_36	2,14%	1,09 ton	09_37A	2,60 ton	09_36B	-	-
51.	21B	09_34	1,24%	0,74 ton	09_35A	1,80 ton	09_34B	1,24 ton	11_34C
52.	22B	09_32	1,96%	-	-	2,73 ton	09_32B	2,04 ton	10_32C
53.	23B	08_33	2,14%	0,54 ton	08_32A	2,01 ton	08_33B	-	-
54.	24B	08_29	0,63%	2,08 ton	08_30A	0,79 ton	08_29B	-	-
55.	25B	06_29	0,51%	-	-	0,74 ton	06_29B	1,53 ton	04_33C
56.	26B	06_31	1,26%	0,85 ton	04_30A	2,42 ton	06_31B	0,51 ton	04_33C
57.	27B	06_32	1,02%	0,83 ton	06_33A	1,84 ton	06_32B	-	-

No.	No. Blok	Hole_ID	Kadar komposit Ni (zona saprolit)	rata-rata		Tonase sumberdaya terukur (ton)			
				H (0°-7°)	Hole_id	K (8°-14°)	Hole_id	M (15°-27°)	Hole_id
58.	28B	05_34	1,26%	2,13 ton	06_34A	2,36 ton	05_34B	0,85 ton	04_33C
59.	29B	05_33	1,89%	0,59 ton	06_33A	1,32 ton	05_33B	1,36 ton	04_33C
60.	30B	05_32	1,26%	-	-	3,58 ton	05_32B	1,19 ton	04_33C
61.	31B	04_32	1,51%	0,18 ton	04_31A	2,85 ton	04_32B	0,34 ton	04_33C
62.	1C	12_35	0,28%	0,09 ton	11_35A	0,36 ton	12_36B	0,63 ton	12_35C
63.	2C	11_33	0,92%	-	-	3,12 ton	11_32B	1,34 ton	11_33C
64.	3C	10_32	0,95%	-	-	2,88 ton	10_33B	6,14 ton	10_32C
65.	4C	11_34	0,21%	-	-	0,49 ton	10_35B	3,52 ton	11_34C
66.	5C	11_38	0,48%	0,85 ton	10_38A	0,46 ton	11_39B	0,37 ton	11_38C
67.	6C	04_33	1,14%	-	-	1,53 ton	04_32B	1,88 ton	04_33C
TOTAL:				70,48 ton		68,24 ton		13,88 ton	