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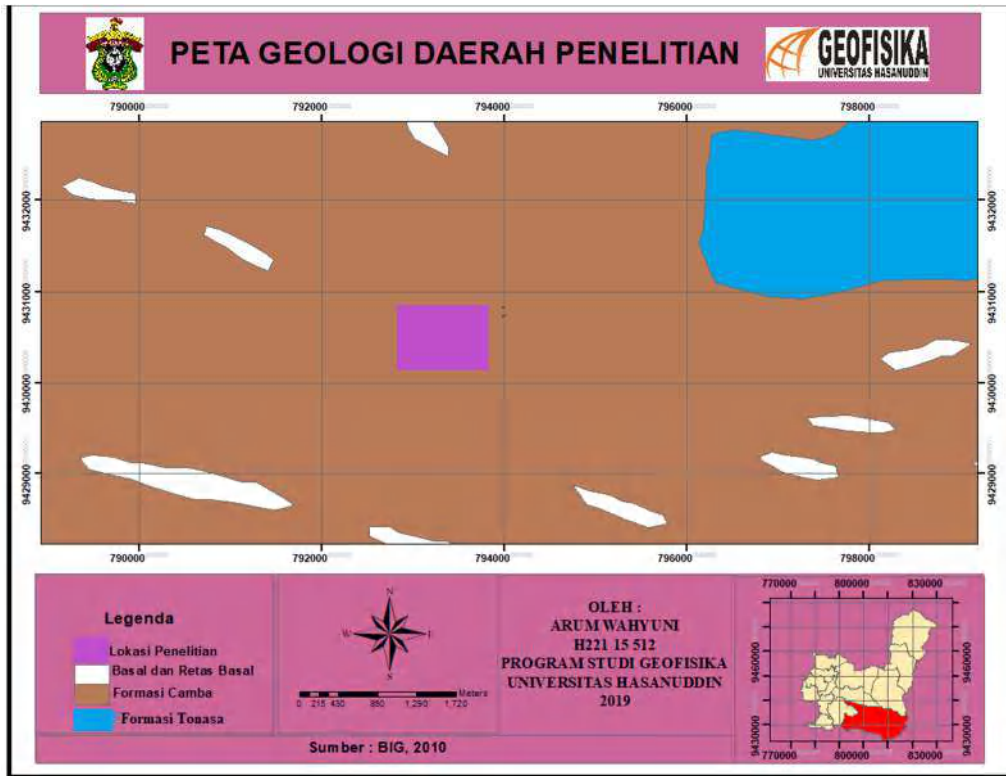


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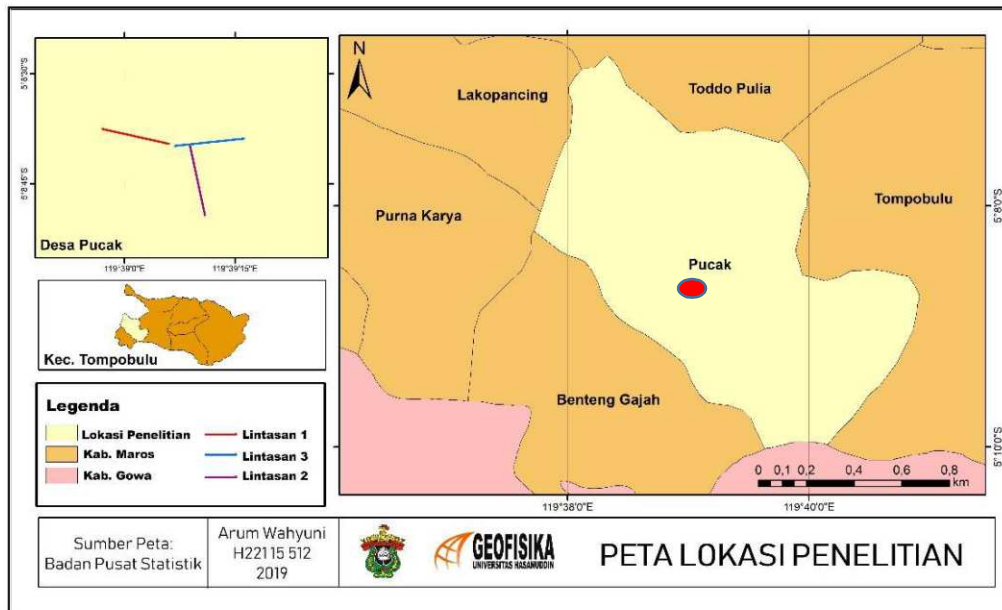
LAMPIRAN

lampiran I Peta Geologi Daerah Penelitian





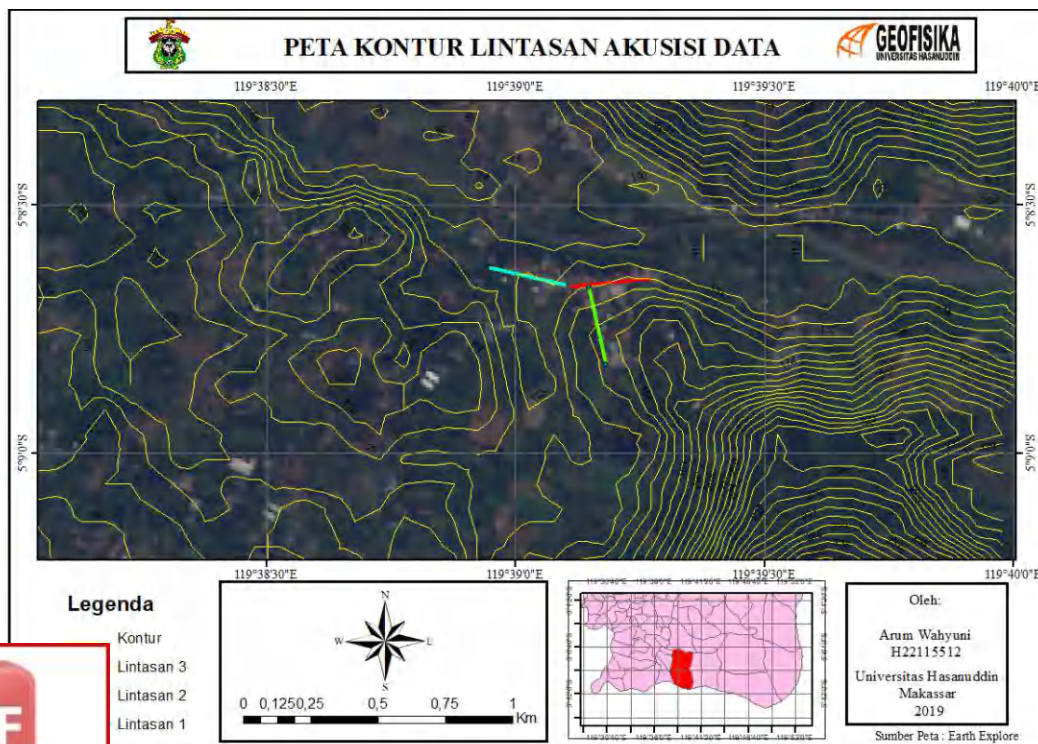
Lampiran II Peta Lokasi Daerah Penelitian



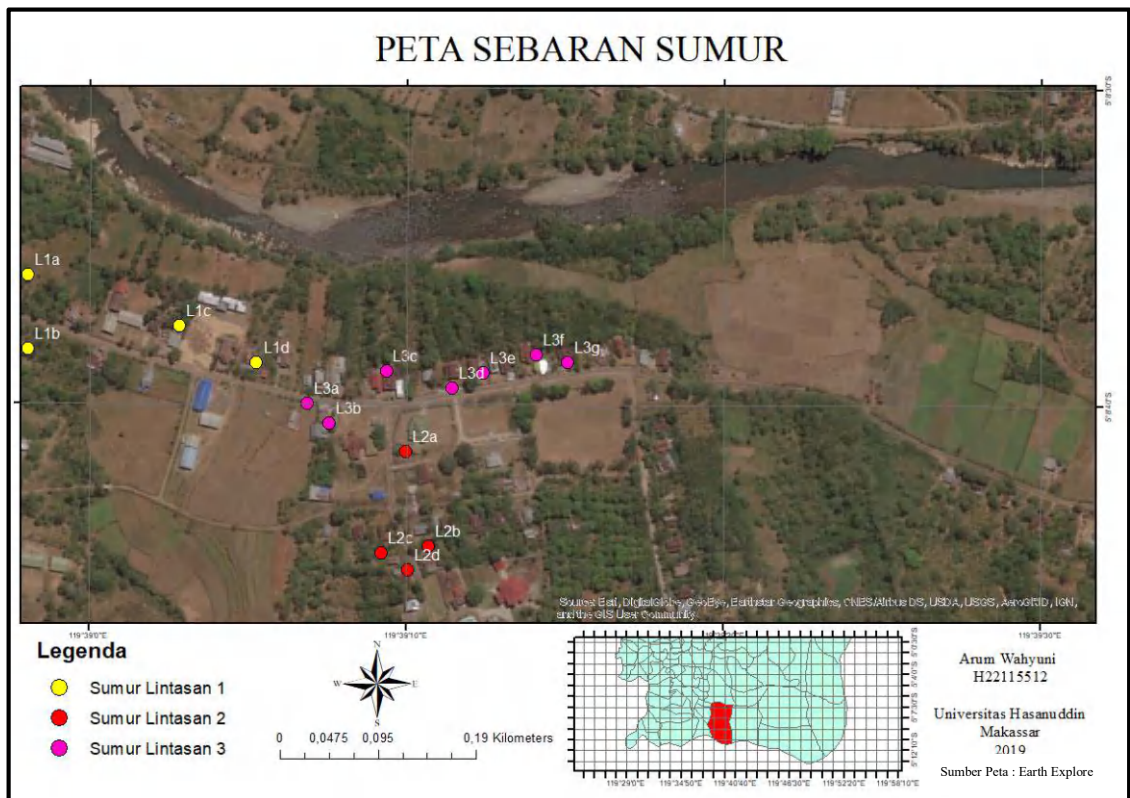
III Peta lintasan akuisisi data



Lampiran IV Peta Kontur Lintasan Akuisisi Data



Lampiran V Peta Sebaran Sumur



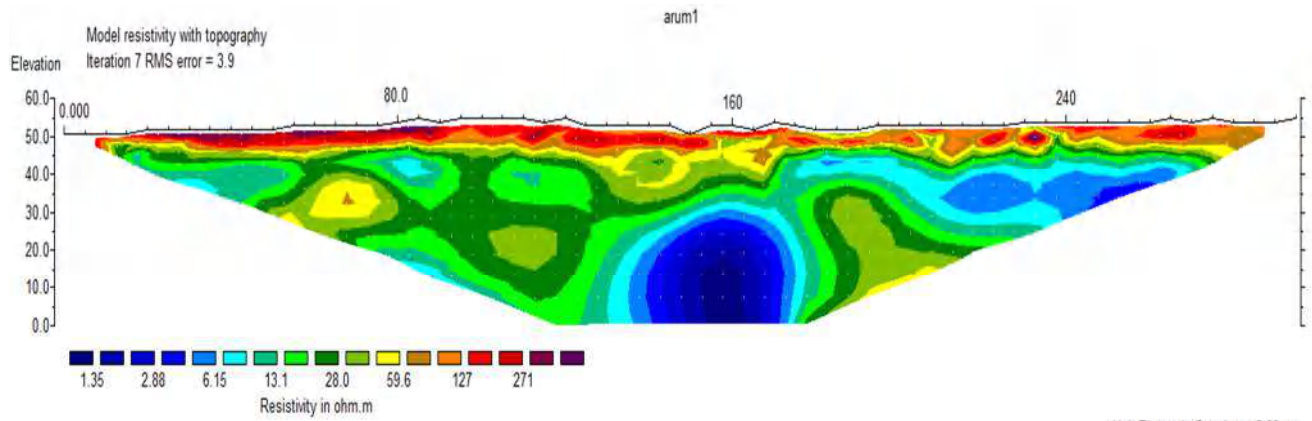
Lampiran VI Tabel Sebaran Sumur

NO	Lintasan	Kode titik	h1 (m)	h2 (m)	h3 (m)	h4 (m)	x	y	Elevasi
1	L1a	a	5.4	1.75	0.75	3.65	793733	9430884	44
2	L1b	b	3.6	1.7	0.7	1.9	793733	9430812	47
3	L1c	c	9	4.9	0.75	4.1	793880	9430834	51
4	L1d	d	6.8	4.3	0.7	2.5	793955	9430798	53
5	L3a	a	8	5.5	0.75	2.5	794004	9430759	54
6	L3b	b	8.9	4.35	0.75	4.55	794025	9430739	54
7	L3c	c	7.7	3.3	0.1	4.4	794081.13	9430789.89	56
8	L3d	d	8.1	3.8	0.6	4.3	794145.27	9430773.89	56
9	L3e	e	7.25	4.25	0.25	3	794175	9430788	58
10	L3f	f	11	8.2	0.75	2.8	794227	9430806	43
11	L3g	g	15	6.9	0.5	8.1	794257	9430798	50
12	L2a	a	3.9	2	0.2	1.9	794100	9430712	53
13	L2b	b	5.6	4.5	0.25	1.1	794122.22	9430619.64	59
14	L2c	c	6.3	4	0	2.3	794076.48	9430613.16	53
15	L2d	d	4.9	3	0.65	1.9	794101.82	9430596.92	55



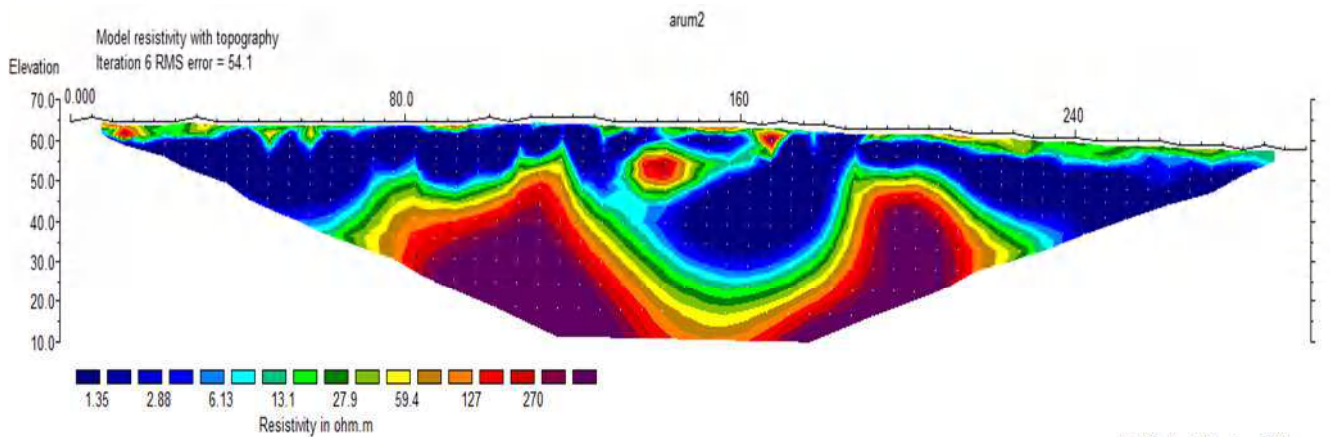
Annex VII Penampang Hasil Inversi *Res2Dinv*

Lintasan 1



Horizontal scale is 21.78 pixels per unit spacing
Vertical exaggeration in model section display = 0.61
First electrode is located at 0.0 m.
Last electrode is located at 295.0 m.

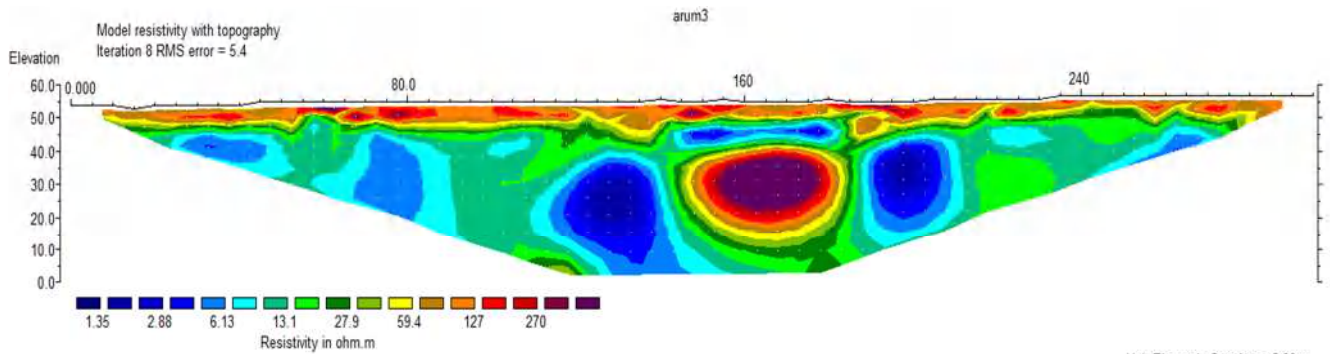
Lintasan 2



Horizontal scale is 21.59 pixels per unit spacing
Vertical exaggeration in model section display = 0.64
First electrode is located at 0.0 m.
Last electrode is located at 295.0 m.



3



Horizontal scale is 21.59 pixels per unit spacing
 Vertical exaggeration in model section display = 0.64
 First electrode is located at 0.0 m.
 Last electrode is located at 295.0 m.

Unit Electrode Spacing = 5.00 m.

Lampiran VIII Contoh Data Geolistrik

A(C1)	M(P1)	N(P2)	B(C2)	I(mA)	V(mV)	Rho
57	58	59	60	349.751495	988.854553	88.82254
56	57	58	59	336.301636	764.77417	71.442123
55	57	58	60	327.094849	169.607986	48.870197
55	56	57	58	405.256042	1097.824341	85.104668
54	56	57	59	415.305725	255.996597	58.094864
53	56	57	60	215.394257	42.499428	37.191971
54	55	56	57	436.874329	1220.473145	87.765099
53	55	56	58	246.590744	175.031357	66.89743
52	55	56	59	257.49823	53.139427	38.899406
51	55	56	60	280.798889	21.457659	24.006849
53	54	55	56	216.482925	670.974304	97.371391
52	54	55	57	266.133972	195.639511	69.282997
51	54	55	58	337.89505	76.095604	42.450066
50	54	55	59	295.55307	22.607815	24.031044
49	54	55	60	348.259521	12.396969	16.77466
52	53	54	55	253.392303	759.663208	94.18396
51	53	54	56	283.237579	162.993927	54.235798
50	53	54	57	306.121429	52.410282	32.271835
49	53	54	58	439.001678	29.040815	20.782225
48	53	54	59	279.30069	7.529656	12.704073
47	52	55	60	137.749573	8.982842	13.657821
51	52	53	54	342.077576	1014.373596	93.15918
52	52	53	55	289.611908	174.597519	56.818901
52	52	53	56	348.433258	54.987095	29.746954
52	52	53	57	288.898834	16.115433	17.524492



47	52	53	58	149.529129	4.840312	15.254095
46	51	54	59	106.247902	6.604451	13.018756
45	51	54	60	237.673935	9.410897	11.195459
50	51	52	53	199.631134	557.804688	87.781647
49	51	52	54	438.971771	274.924011	59.026592
48	51	52	55	273.765045	42.591541	29.325499
47	51	52	56	137.989426	9.276234	21.119009
46	51	52	57	108.236748	3.623396	15.775503
45	50	53	58	276.371857	17.555111	13.303577
44	50	53	59	145.004044	5.612154	10.942891
43	50	53	60	326.034729	9.148923	10.284968
49	50	51	52	265.888611	604.23645	71.393158
48	50	51	53	192.020279	79.359344	38.951248
47	50	51	54	149.311569	25.351166	32.003807
46	50	51	55	106.415863	6.53052	19.279224
45	50	51	56	238.731522	6.687171	13.199994
44	49	52	57	148.060745	9.228375	13.053926
43	49	52	58	402.734802	16.220888	11.388014
42	49	52	59	331.463196	9.097453	10.05959
41	49	52	60	317.49823	6.953132	10.090675
48	49	50	51	242.106033	472.796783	61.350117
47	49	50	52	123.005692	68.432884	52.433422
46	49	50	53	91.548981	15.45716	31.825571
45	49	50	54	277.28537	18.100605	20.50766
44	49	50	55	144.254974	4.275111	13.965407
43	48	51	56	326.204315	18.59181	11.936869
42	48	51	57	345.003082	12.276738	10.061244
41	48	51	58	390.190796	10.458382	9.823901
40	48	51	59	245.19104	4.984989	9.367872
39	48	51	60	237.937317	4.045815	9.615406
47	48	49	50	130.533661	394.019836	94.829109
46	48	49	51	101.268127	53.769932	50.042282
45	48	49	52	197.486771	30.036558	28.669041
44	48	49	53	118.027359	6.60224	17.573423
43	48	49	54	402.700806	11.485903	13.440763
	47	50	55	324.92514	15.09479	9.729774
	47	50	56	317.946533	10.048306	8.935751
	47	50	57	252.815689	5.837799	8.463336
	47	50	58	276.845917	5.195945	8.647848



38	47	50	59	94.464867	1.387437	8.305433
37	46	51	60	282.831543	7.191911	10.065537
46	47	48	49	108.099174	103.883263	30.190475
45	47	48	50	218.813095	48.842228	21.037468
44	47	48	51	134.688812	9.311063	13.030695
43	47	48	52	253.636353	7.087921	8.779242
42	47	48	53	215.971161	2.938612	6.411902
41	46	49	54	390.204803	21.035627	11.290722
40	46	49	55	241.70311	8.152773	9.537076
39	46	49	56	238.659149	6.032081	9.263726
38	46	49	57	95.966545	1.997816	9.592062
37	46	49	58	338.316864	5.867108	9.806682
36	45	50	59	390.220245	10.591484	10.744034
35	45	50	60	274.741364	6.177228	10.595249
45	46	47	48	209.752747	682.57312	102.233063
44	46	47	49	147.387024	85.301407	54.546288
43	46	47	50	289.682556	45.621716	29.6859
42	46	47	51	280.697052	15.965646	17.868876
41	46	47	52	248.552155	7.596268	14.402019
40	45	48	53	175.811462	8.709935	10.375905
39	45	48	54	276.758392	9.621984	9.830061
38	45	48	55	94.309639	2.531967	9.840073
37	45	48	56	282.994476	6.243169	10.165024
36	45	48	57	409.607391	7.556759	10.432538
35	44	49	58	326.852356	9.152272	11.084046
34	44	49	59	360.9505	8.345716	10.895709
33	44	49	60	185.936844	3.680724	10.945422
44	45	46	47	90.490974	174.184418	60.47176
43	45	46	48	273.725647	153.638092	52.899857
42	45	46	49	345.276917	54.939793	29.993055
41	45	46	50	283.330933	17.296974	19.178995
40	45	46	51	217.101532	6.349762	13.782731
39	44	47	52	197.161911	12.10526	12.859067
38	44	47	53	82.454063	3.647471	12.507603
37	44	47	54	338.12854	11.75099	12.737647
	44	47	55	381.960938	10.580286	12.763178
	44	47	56	274.777466	5.917221	12.177514
	43	48	57	377.144836	10.715938	11.247117
	43	48	58	208.750977	4.941066	11.154039



32	43	48	59	440.464264	8.908269	11.18267
31	43	48	60	303.117706	5.453483	11.53038
43	44	45	46	107.026108	267.381439	78.485161
42	44	45	47	137.466919	59.288208	40.64809
41	44	45	48	268.122986	47.224651	33.199821
40	44	45	49	253.248535	16.201632	20.098408
39	44	45	50	218.435318	6.820977	14.715143
38	43	46	51	89.845032	6.392927	14.902665
37	43	46	52	226.761948	11.894596	14.831029
36	43	46	53	239.356979	9.807834	15.018309
35	43	46	54	326.443665	9.219016	13.012404
34	43	46	55	352.721741	7.593641	12.174169
33	42	47	56	186.134201	5.67002	12.058077
32	42	47	57	464.565521	12.106233	12.280137
31	42	47	58	367.776581	8.378913	12.596924
30	42	47	59	392.165466	7.919104	12.941543
29	42	47	60	297.110352	5.468972	13.531714
42	43	44	45	237.415543	421.80426	55.815258
41	43	44	46	106.326233	50.669624	44.913322
40	43	44	47	120.48587	14.640055	22.903784
39	43	44	48	209.316696	12.979315	19.480387
38	43	44	49	95.72271	3.568398	17.567093
37	42	45	50	255.505539	21.803644	17.872581
36	42	45	51	324.870636	20.347601	17.709024
35	42	45	52	221.272049	8.765038	14.518544
34	42	45	53	227.504578	6.477558	13.119034
33	42	45	54	208.366531	4.489066	12.182946
32	41	46	55	428.371307	12.256898	11.326111
31	41	46	56	302.847839	7.517051	11.696686
30	41	46	57	411.477173	8.90277	11.963047
29	41	46	58	358.943726	6.959248	12.425524
28	41	46	59	258.914581	4.557629	12.940357
27	40	47	60	136.143066	3.13308	13.426716
41	42	43	44	142.870392	381.758759	83.944618
40	42	43	45	191.026718	103.37516	51.002724
	42	43	46	95.70504	16.422073	32.343868
	42	43	47	68.335648	4.804078	22.08573
	42	43	48	242.792923	11.039547	21.426744
	41	44	49	415.46698	35.170986	17.729919



35	41	44	50	248.675842	12.22175	13.896063
34	41	44	51	303.059814	10.173979	12.304362
33	41	44	52	159.709641	3.855373	11.122874
32	41	44	53	256.065399	5.034266	11.1175
31	40	45	54	367.49353	10.496434	11.306086
30	40	45	55	382.53302	9.363313	11.534571
29	40	45	56	296.612793	6.415897	11.960023
28	40	45	57	267.06073	5.19243	12.460617
27	40	45	58	147.869431	2.579352	12.823319
26	39	46	59	316.575745	7.028894	12.954014
25	39	46	60	336.687988	6.69778	13.124188
40	41	42	43	241.755295	310.692108	40.374161
39	41	42	44	124.017975	47.513184	36.107594
38	41	42	45	85.324226	10.919837	24.123739
37	41	42	46	102.574097	5.796089	17.751917
36	41	42	47	146.759689	4.510727	14.483684
35	40	43	48	236.849518	16.793028	14.849611
34	40	43	49	380.213196	16.905609	12.571758
33	40	43	50	173.316086	5.282898	11.17198
32	40	43	51	356.948181	8.393878	10.835245
31	40	43	52	239.050735	4.632188	10.957661
30	39	44	53	239.366943	6.61963	10.946856
29	39	44	54	358.353912	8.593122	11.300035
28	39	44	55	254.592972	5.303749	11.518504
27	39	44	56	136.378616	2.549401	11.980526
26	39	44	57	329.092285	5.475725	12.231775
25	38	45	58	417.825562	8.924108	12.461334
24	38	45	59	420.909637	8.039693	12.601357
23	38	45	60	256.404358	4.510591	13.02697
39	40	41	42	235.97403	523.098145	69.641479
38	40	41	43	94.449127	41.752579	41.663475
37	40	41	44	135.319168	23.257336	32.396645
36	40	41	45	269.360138	19.979227	23.302105
35	40	41	46	101.465469	3.583635	16.643614
34	39	42	47	142.209259	7.827956	11.528663
	39	42	48	167.645844	6.061776	10.223478
	39	42	49	470.87204	12.457786	9.696977
	39	42	50	271.78418	5.690705	9.647682
	39	42	51	327.972809	5.735746	9.889483



29	38	43	52	235.227036	6.146361	10.343106
28	38	43	53	182.746185	4.140429	10.676777
27	38	43	54	147.650436	2.945689	11.030998
26	38	43	55	310.426361	5.418196	11.186047
25	38	43	56	334.784637	5.300634	11.639316
24	37	44	57	442.856689	9.156322	12.062927
23	37	44	58	302.34726	5.737273	12.519011
22	37	44	59	327.369965	5.662166	12.807948
21	37	44	60	172.151627	2.788922	13.377606
38	39	40	41	93.880402	155.705215	52.104691
37	39	40	42	280.154938	116.108215	39.060291
36	39	40	43	383.208313	49.395336	24.296978
35	39	40	44	133.284592	7.526927	17.741379
34	39	40	45	253.761368	7.06075	13.111922
33	38	41	46	86.104164	4.833356	11.756581
32	38	41	47	152.496094	5.206272	9.652968
31	38	41	48	257.317932	6.642935	9.462083
30	38	41	49	415.393158	8.641048	9.584916
29	38	41	50	266.795044	4.602567	9.755395
28	37	42	51	228.391479	5.817532	10.082751
27	37	42	52	121.146194	2.664982	10.366242
26	37	42	53	209.465134	4.055259	10.704589
25	37	42	54	415.784027	7.071583	10.900062
24	37	42	55	410.248749	6.202099	11.113648
23	36	43	56	257.618744	5.287789	11.97551
22	36	43	57	340.677277	6.425356	12.442913
21	36	43	58	191.929321	3.344178	12.903135
20	36	43	59	464.799011	7.30782	12.983246
19	36	43	60	233.186539	3.47544	13.645469
37	38	39	40	219.365677	344.546753	49.343403
36	38	39	41	372.242157	130.819366	33.12207
35	38	39	42	272.80307	33.624519	23.233103
34	38	39	43	351.735748	17.620607	15.738134
33	38	39	44	107.842316	2.773149	12.117782
32	37	40	45	290.133057	16.212952	11.703707
	37	40	46	105.368286	3.811551	10.227843
	37	40	47	146.441818	3.753623	9.394695
	37	40	48	252.859024	5.172104	9.424747
	37	40	49	267.867584	4.572806	9.653501



27	36	41	50	129.084839	3.464669	10.624444
26	36	41	51	272.941071	6.175292	10.661781
25	36	41	52	258.38031	5.095979	10.905128
24	36	41	53	249.895767	4.362548	11.18823
23	36	41	54	303.248352	4.734949	11.478415
22	35	42	55	320.818512	6.680713	12.14948
21	35	42	56	173.714142	3.292525	12.504411
20	35	42	57	494.387146	8.597254	12.877407
19	35	42	58	269.449768	4.354095	13.344116
18	35	42	59	206.480759	3.045876	13.505615
17	34	43	60	167.949295	3.184411	14.626857
36	37	38	39	268.049103	544.137512	63.773987
35	37	38	40	214.247726	95.009148	41.794621
34	37	38	41	342.734863	50.794201	27.93549
33	37	38	42	184.939957	11.744012	19.949635
32	37	38	43	426.493317	12.779866	14.120661
31	36	39	44	139.54451	8.495646	12.750941
30	36	39	45	268.50061	10.515285	11.073073
29	36	39	46	104.74855	2.993986	10.476071
28	36	39	47	123.522697	2.651417	9.890332
27	36	39	48	126.2257	2.25313	10.093867
26	35	40	49	331.538147	9.291251	11.093307
25	35	40	50	297.052246	7.074859	11.223429
24	35	40	51	347.862274	7.208241	11.457362
23	35	40	52	210.343964	3.793001	11.556667
22	35	40	53	214.237839	3.492125	11.982755
21	34	41	54	192.513168	4.169196	12.635422
20	34	41	55	453.799011	8.970556	13.041409
19	34	41	56	232.62381	4.266717	13.582313
18	34	41	57	211.536102	3.572078	13.944592
17	34	41	58	182.392365	2.773708	13.923099
16	33	42	59	160.758255	2.992962	14.362293
15	33	42	60	194.323013	3.359302	14.66363
35	36	37	38	89.906944	136.481506	47.690208
34	36	37	39	252.52066	105.926865	39.53487
	36	37	40	155.865005	23.186312	28.040361
	36	37	41	413.360229	26.048851	19.79747
	36	37	42	300.234955	10.927849	17.151983
	35	38	43	381.202209	30.412687	16.709286



29	35	38	44	138.163986	6.976269	14.276398
28	35	38	45	198.644241	6.893275	12.718804
27	35	38	46	74.126175	1.967217	12.227992
26	35	38	47	134.844223	2.808042	11.775811
25	34	39	48	279.146973	8.315933	11.792302
24	34	39	49	449.598053	11.271182	11.813692
23	34	39	50	235.760712	5.066863	11.883149
22	34	39	51	281.14151	5.390883	12.289031
21	34	39	52	150.25975	2.638725	12.909676
20	33	40	53	265.142731	6.122581	13.472276
19	33	40	54	268.564667	5.578639	13.704026
18	33	40	55	203.787674	3.847736	13.981809
17	33	40	56	164.713699	2.857734	14.327215
16	33	40	57	163.800751	2.560716	14.312866
15	32	41	58	218.557983	4.197416	14.815259
14	32	41	59	318.688141	5.575087	14.838777
13	32	41	60	233.932892	3.642848	14.459006
34	35	36	37	302.465698	633.454285	65.794388
33	35	36	38	77.577377	37.700493	45.80167
32	35	36	39	287.986298	53.164993	34.798061
31	35	36	40	230.975845	22.573479	30.703068
30	35	36	41	370.612122	21.422939	27.239574
29	34	37	42	294.978516	30.482965	21.643391
28	34	37	43	254.427338	16.125048	17.919655
27	34	37	44	89.20929	3.69025	15.161429
26	34	37	45	231.101913	6.788107	13.534006
25	34	37	46	109.290451	2.516093	13.018363
24	33	38	47	150.227829	4.989408	13.146745
23	33	38	48	224.92569	6.265054	13.125844
22	33	38	49	344.043091	8.407409	13.511751
21	33	38	50	162.40213	3.432766	13.546701
20	33	38	51	376.708069	7.244483	14.137497
19	32	39	52	192.950668	4.630262	14.000941
18	32	39	53	155.161987	3.346297	14.228195
17	32	39	54	181.787582	3.495137	14.237578
	32	39	55	159.166367	2.756778	14.302627
	32	39	56	193.971191	3.111683	14.687133
	31	40	57	331.322723	6.341793	14.765933
	31	40	58	270.025421	4.621656	14.517972



12	31	40	59	314.374298	4.930777	14.563231
11	31	40	60	318.314728	4.620466	14.693763
33	34	35	36	202.706787	327.421326	50.74424
32	34	35	37	355.023773	160.079788	42.496208
31	34	35	38	92.666161	15.318228	31.159309
30	34	35	39	266.482117	22.462458	26.481285
29	34	35	40	227.343323	11.600155	24.044886
28	33	36	41	249.765823	30.212973	25.334881
27	33	36	42	135.935669	11.379132	23.668327
26	33	36	43	310.181244	16.723494	19.76096
25	33	36	44	145.65564	5.284192	16.716061
24	33	36	45	281.795319	7.48139	15.013113
23	32	37	46	99.926277	3.520925	13.947423
22	32	37	47	136.739441	4.014246	13.834029
21	32	37	48	157.209229	3.944785	13.874197
20	32	37	49	501.569153	11.044813	14.111858
19	32	37	50	213.985397	4.220134	14.497963
18	31	38	51	185.934158	4.687829	14.709875
17	31	38	52	143.57225	3.186919	14.644244
16	31	38	53	128.12561	2.674021	15.454896
15	31	38	54	218.002457	3.934863	14.905101
14	31	38	55	312.585968	5.174923	15.157088
13	30	39	56	233.219925	4.444201	14.700359
12	30	39	57	326.727173	5.610923	14.566748
11	30	39	58	388.564331	6.128133	14.643856
10	30	39	59	336.68454	4.919778	14.791932
9	30	39	60	256.073029	3.506608	15.057134
32	33	34	35	342.354675	613.091492	56.259895
31	33	34	36	350.967896	186.869202	50.18124
30	33	34	37	322.803223	68.996536	40.289314
29	33	34	38	91.979439	9.071522	30.984116
28	33	34	39	197.66922	11.007601	26.241859
27	32	35	40	119.450241	14.238672	24.965527
26	32	35	41	303.224579	23.134821	21.572176
25	32	35	42	330.828583	17.818373	19.740654
	32	35	43	408.245483	15.205868	17.162106
	32	35	44	129.40686	3.522318	15.391996
	31	36	45	236.798401	9.270082	15.496199
	31	36	46	84.227028	2.689467	15.047365



20	31	36	47	155.391663	4.264683	15.174547
19	31	36	48	204.840302	4.835267	15.128124
18	31	36	49	212.193588	4.463186	15.462461
17	30	37	50	154.908051	3.991295	15.032667
16	30	37	51	147.852219	3.417141	15.247687
15	30	37	52	165.401001	3.356143	15.02578
14	30	37	53	210.584244	3.870553	15.17803
13	30	37	54	269.42569	4.444666	15.103672
12	29	38	55	308.70636	5.819408	14.542304
11	29	38	56	316.026978	5.470689	14.683573
10	29	38	57	350.888702	5.576044	14.75529
9	29	38	58	299.333984	4.488701	15.17997
8	29	38	59	254.665771	3.511629	15.161939
7	28	39	60	241.661057	3.692609	14.662942
31	32	33	34	325.2724	639.035278	61.720226
30	32	33	35	312.251434	182.123077	54.970741
29	32	33	36	342.69751	76.349464	41.994823
28	32	33	37	227.212143	22.874943	31.62845
27	32	33	38	67.46936	3.70084	25.848431
26	31	34	39	229.549362	28.048525	25.591303
25	31	34	40	247.970474	19.199337	21.891653
24	31	34	41	396.415894	20.861217	19.287901
23	31	34	42	258.604614	10.160662	18.103643
22	31	34	43	320.436676	9.508487	16.779978
21	30	35	44	103.898781	4.160313	15.850263
20	30	35	45	301.36731	9.882215	15.452526
19	30	35	46	95.956444	2.646353	15.248279
18	30	35	47	110.268356	2.603972	15.13448
17	30	35	48	150.158844	3.094363	15.14901
16	29	36	49	163.815033	4.272173	15.21562
15	29	36	50	180.689713	4.140343	15.117258
14	29	36	51	274.319916	5.624019	15.181873
13	29	36	52	193.351425	3.528728	15.071015
12	29	36	53	208.856339	3.399101	14.900387
11	28	37	54	386.528931	7.225846	14.42136
	28	37	55	330.103973	5.614809	14.427734
	28	37	56	254.301987	4.06558	14.844381
	28	37	57	262.573303	3.892939	15.008346
	28	37	58	279.853699	3.862866	15.177341



6	27	38	59	276.059174	4.338287	15.080317
5	27	38	60	248.390793	3.689566	15.399068
30	31	32	33	202.077652	458.481079	71.277435
29	31	32	34	317.956512	219.496964	65.062653
28	31	32	35	221.914154	56.747124	48.201359
27	31	32	36	144.870865	17.828424	38.661697
26	31	32	37	270.551666	17.065248	29.723719
25	30	33	38	95.077469	10.712199	23.597151
24	30	33	39	279.459656	19.607979	19.838373
23	30	33	40	205.150787	10.022731	17.906452
22	30	33	41	313.057587	11.405761	16.7873
21	30	33	42	173.267914	5.066621	16.535954
20	29	34	43	450.342834	18.847219	16.566254
19	29	34	44	122.349838	4.15689	16.010525
18	29	34	45	166.212372	4.634121	15.415829
17	29	34	46	82.068932	1.908174	14.900838
16	29	34	47	96.135635	1.952865	14.933331
15	28	35	48	174.038208	4.460704	14.953875
14	28	35	49	335.021545	7.559784	14.88696
13	28	35	50	214.818832	4.220281	14.548065
12	28	35	51	271.814606	4.670586	14.189565
11	28	35	52	247.36731	3.82861	14.170321
10	27	36	53	218.110779	4.124073	14.586434
9	27	36	54	297.854584	5.114655	14.565505
8	27	36	55	250.650818	3.927775	14.550133
7	27	36	56	240.153244	3.530442	14.881458
6	27	36	57	285.444824	3.915851	15.084203
5	26	37	58	292.010193	4.730544	15.545663
4	26	37	59	274.496185	4.144135	15.651389
3	26	37	60	302.127777	4.399927	16.262289
29	30	31	32	378.041107	1063.778198	88.402
28	30	31	33	159.846405	117.796669	69.454445
27	30	31	34	140.347534	39.497776	53.047894
26	30	31	35	263.217499	31.991659	38.183125
25	30	31	36	392.741669	22.433453	26.917196
	29	32	37	341.984772	36.764034	22.51511
	29	32	38	87.743965	5.7952	18.674236
	29	32	39	235.068024	10.949231	17.072084
	29	32	40	147.560974	5.2959	16.536705



20	29	32	41	436.294098	12.584477	16.31089
19	28	33	42	232.126907	9.841978	16.7833
18	28	33	43	203.65004	6.941054	16.06135
17	28	33	44	100.500793	2.851189	15.686358
16	28	33	45	135.389496	3.268387	15.471377
15	28	33	46	89.039154	1.764033	14.564488
14	27	34	47	134.989166	3.539392	15.297659
13	27	34	48	205.290588	4.521767	14.53143
12	27	34	49	331.118866	6.285116	14.056117
11	27	34	50	283.450165	4.819002	14.039419
10	27	34	51	287.827789	4.391882	13.970127
9	26	35	52	207.608505	3.837471	14.259403
8	26	35	53	180.555664	3.051194	14.334164
7	26	35	54	278.631317	4.370805	14.565328
6	26	35	55	271.475067	3.887234	14.494876
5	26	35	56	247.71759	3.38659	15.03223
4	25	36	57	283.878021	4.530741	15.315604
3	25	36	58	365.225281	5.533166	15.706406
2	25	36	59	226.35582	3.240869	15.988196
1	25	36	60	276.101837	3.764391	16.354303
28	29	30	31	240.187088	759.602356	99.354195
27	29	30	32	150.395477	123.916901	77.654259
26	29	30	33	180.157944	50.570763	52.910973
25	29	30	34	359.824127	41.403316	36.148842
24	29	30	35	330.385437	18.423071	26.277348
23	28	31	36	295.121307	30.27816	21.48757
22	28	31	37	278.460083	18.14551	18.424608
21	28	31	38	75.327309	3.477067	16.918282
20	28	31	39	298.446411	10.935082	16.882498
19	28	31	40	187.900482	5.540175	16.673151
18	27	32	41	200.925064	8.46715	16.681057
17	27	32	42	164.253906	5.585167	16.023659
16	27	32	43	159.076859	4.495821	15.626612
15	27	32	44	110.621742	2.67237	15.482308
14	27	32	45	232.117615	4.754006	15.056267
	26	33	46	96.474052	2.418324	14.62479
	26	33	47	134.285141	2.949146	14.488923
	26	33	48	266.46048	4.906963	13.636914
	26	33	49	355.721313	5.907492	13.71396



9	26	33	50	232.622803	3.492358	13.745088
8	25	34	51	225.005249	4.025484	13.80147
7	25	34	52	198.129089	3.183263	13.62818
6	25	34	53	191.189102	2.903952	14.103204
5	25	34	54	291.793823	4.109151	14.255653
4	25	34	55	269.985626	3.608546	14.696382
3	24	35	56	299.291473	4.743598	15.209352
2	24	35	57	232.614792	3.462509	15.431789
1	24	35	58	326.545929	4.677149	15.994541
27	28	29	30	144.319031	565.203552	123.035461
26	28	29	31	288.725128	263.029938	85.860207
25	28	29	32	437.826141	134.313522	57.825481
24	28	29	33	209.474274	25.024996	37.53117
23	28	29	34	276.91214	15.830767	26.940176
22	27	30	35	270.887787	29.216778	22.589201
21	27	30	36	187.871536	12.845362	19.33202
20	27	30	37	371.959717	18.889372	18.613045
19	27	30	38	84.373131	3.274801	17.883892
18	27	30	39	165.500046	4.961391	16.952255
17	26	31	40	140.868866	5.919168	16.63282
16	26	31	41	157.415863	5.447204	16.306707
15	26	31	42	193.18988	5.516133	15.787488
14	26	31	43	312.077667	7.469822	15.34009
13	26	31	44	122.302704	2.460902	14.791684
12	25	32	45	230.088669	5.277192	13.381429
11	25	32	46	108.731232	2.158024	13.093764
10	25	32	47	137.95369	2.428962	13.038161
9	25	32	48	221.248428	3.51358	13.114133
8	25	32	49	264.88385	3.830231	13.238887
7	24	33	50	220.800049	3.792768	13.251241
6	24	33	51	241.92009	3.849687	13.497942
5	24	33	52	202.652084	3.041569	13.93609
4	24	33	53	190.386749	2.725812	14.493274
3	24	33	54	363.557556	4.853357	14.678678
2	23	34	55	223.130463	3.49806	15.044107
	23	34	56	273.758148	4.09242	15.498059
	27	28	29	283.674835	996.481812	110.356583
	27	28	30	390.204285	381.646515	92.180832
	27	28	31	372.417267	110.514984	55.936157



23	27	28	32	320.924011	38.141678	37.337612
22	27	28	33	183.780396	11.005731	28.220175
21	26	29	34	180.542511	22.29355	25.861681
20	26	29	35	357.814606	29.642773	23.423494
19	26	29	36	259.974792	15.263361	21.518663
18	26	29	37	186.122452	7.66169	18.967361
17	26	29	38	186.202026	7.657105	23.254248
16	25	30	39	134.778595	5.402024	15.865577
15	25	30	40	161.595337	5.249572	15.308619
14	25	30	41	305.157593	8.238587	14.927643
13	25	30	42	232.588806	5.166947	14.237226
12	25	30	43	308.543762	5.649594	13.460652
11	24	31	44	142.082687	3.233438	13.277475
10	24	31	45	241.268906	4.779276	13.068633
9	24	31	46	100.390335	1.748728	12.899006
8	24	31	47	122.00399	1.931858	13.075994
7	24	31	48	210.362885	2.975843	12.951571
6	23	32	49	288.617279	4.854841	12.97633
5	23	32	50	228.333481	3.551671	13.194208
4	23	32	51	240.940018	3.566291	13.743477
3	23	32	52	237.022018	3.255782	13.904982
2	23	32	53	165.904678	2.177387	14.430959
1	22	33	54	325.108032	4.994486	14.742097
25	26	27	28	258.607452	1117.85376	135.79808
24	26	27	29	363.582764	379.669434	98.417778
23	26	27	30	295.119202	108.054131	69.015144
22	26	27	31	297.460602	45.279549	47.821362
21	26	27	32	197.421936	14.949479	35.683735
20	25	28	33	220.270645	29.285934	27.845783
19	25	28	34	245.658325	21.026077	24.200169
18	25	28	35	182.679153	9.827133	19.716713
17	25	28	36	178.366882	6.495025	16.77833
16	25	28	37	148.259247	4.157946	15.859124
15	24	29	38	78.811249	3.204337	16.094322
14	24	29	39	230.342773	7.728978	15.812067
	24	29	40	188.288559	5.072596	14.895979
	24	29	41	301.902527	6.573947	13.955313
	24	29	42	314.342865	5.873141	13.735114
	23	30	43	328.993073	7.24823	12.854061



9	23	30	44	127.937935	2.49212	12.851205
8	23	30	45	195.7836	3.391401	12.827394
7	23	30	46	98.242645	1.51487	12.733863
6	23	30	47	126.690697	1.750236	12.648246
5	22	31	48	217.322983	3.553274	12.613122
4	22	31	49	286.565033	4.372065	12.941318
3	22	31	50	271.230652	3.873578	13.260581
2	22	31	51	202.536072	2.731382	13.651695
1	22	31	52	220.611343	2.846906	14.189342
24	25	26	27	148.363235	449.43277	95.167366
23	25	26	28	213.521393	178.794098	78.919121
22	25	26	29	292.067688	88.534142	57.138386
21	25	26	30	187.189301	25.974684	43.593075
20	25	26	31	407.090912	30.068438	34.806488
19	24	27	32	278.840118	43.153576	32.412998
18	24	27	33	138.471527	12.133643	24.775497
17	24	27	34	171.724411	9.180805	19.594997
16	24	27	35	146.039764	5.728162	18.072798
15	24	27	36	212.478912	6.138818	16.337694
14	23	28	37	272.560303	10.684237	15.516755
13	23	28	38	84.517281	2.606701	14.534015
12	23	28	39	228.425018	5.578861	13.504045
11	23	28	40	238.379303	4.897684	13.167459
10	23	28	41	321.458984	5.627703	12.869769
9	22	29	42	253.142944	5.42385	12.500768
8	22	29	43	250.315216	4.715877	12.429235
7	22	29	44	124.900673	2.062789	12.229838
6	22	29	45	208.406784	3.109778	12.322165
5	22	29	46	99.150925	1.343327	12.404322
4	21	30	47	126.589867	2.068184	12.603391
3	21	30	48	255.190643	3.860091	12.83061
2	21	30	49	234.009827	3.354644	13.310788
1	21	30	50	249.707199	3.343961	13.55612
23	24	25	26	251.468811	1104.513062	137.986404
22	24	25	27	134.796722	148.249634	103.653702
	24	25	28	151.307693	53.326073	66.43219
	24	25	29	396.943115	61.816669	48.924557
	24	25	30	258.846619	22.173254	40.367085
	23	26	31	194.515823	28.785744	30.99423



17	23	26	32	187.502823	14.753239	22.247002
16	23	26	33	116.452621	6.161506	19.392525
15	23	26	34	202.817535	7.479409	16.991936
14	23	26	35	264.927063	7.420185	15.83837
13	22	27	36	260.997437	9.433227	14.306865
12	22	27	37	270.063385	7.54961	13.173463
11	22	27	38	93.403481	2.086321	12.350779
10	22	27	39	239.305496	4.595034	12.305972
9	22	27	40	201.433868	3.354341	12.241659
8	21	28	41	245.974533	5.067605	12.020089
7	21	28	42	239.109421	4.37868	12.081351
6	21	28	43	271.286926	4.401851	12.015512
5	21	28	44	125.986244	1.912534	12.535771
4	21	28	45	207.210205	2.780503	12.285541
3	20	29	46	107.230705	1.675998	12.057817
2	20	29	47	115.072327	1.686322	12.430271
1	20	29	48	236.038406	3.297126	12.970053
22	23	24	25	326.718109	1130.568237	108.710938
21	23	24	26	168.698334	159.640945	89.187073
20	23	24	27	153.000595	49.993511	61.591629
19	23	24	28	193.952057	29.182739	47.269444
18	23	24	29	192.184692	13.775718	33.778191
17	22	25	30	178.234985	22.93903	26.955069
16	22	25	31	153.556625	12.519753	23.052538
15	22	25	32	224.942505	11.931912	19.441721
14	22	25	33	181.034454	6.967381	17.733234
13	22	25	34	246.596848	6.739106	15.453857
12	21	26	35	262.505127	8.789022	13.253273
11	21	26	36	368.270508	9.562583	12.236281
10	21	26	37	285.451538	6.087109	11.79075
9	21	26	38	87.18972	1.546984	11.370967
8	21	26	39	194.625137	3.053313	11.532894
7	20	27	40	192.413086	3.730046	11.310314
6	20	27	41	266.223389	4.535295	11.239015
5	20	27	42	249.302689	3.886974	11.545645
	20	27	43	269.09256	3.853759	11.826401
	20	27	44	138.51947	1.813011	11.983381
	19	28	45	178.287674	2.803296	12.129624
	19	28	46	103.851486	1.512494	12.353134



21	22	23	24	193.894653	803.60907	130.204407
20	22	23	25	462.430817	403.519257	82.240952
19	22	23	26	224.301605	72.006523	60.511723
18	22	23	27	108.714798	13.141547	37.97575
17	22	23	28	144.950912	8.121206	26.40221
16	21	24	29	152.000244	17.835249	24.57497
15	21	24	30	211.653641	15.818759	21.131895
14	21	24	31	290.376434	15.010204	18.946167
13	21	24	32	280.145905	9.744837	16.027712
12	21	24	33	179.905777	4.463366	14.029376
11	20	25	34	339.877258	10.982882	12.791283
10	20	25	35	276.940887	6.994981	11.902552
9	20	25	36	287.010895	5.840823	11.252225
8	20	25	37	224.187866	3.84518	10.992205
7	20	25	38	85.454636	1.244286	10.70435
6	19	26	39	207.149185	3.768443	10.61389
5	19	26	40	197.842773	3.2225	10.745891
4	19	26	41	263.992798	3.923659	11.006145
3	19	26	42	299.190857	4.112942	11.352024
2	19	26	43	222.341461	2.836749	11.681031
1	18	27	44	132.618225	2.143661	12.469802
20	21	22	23	338.589813	1436.827759	133.315262
19	21	22	24	271.557648	257.938568	89.520966
18	21	22	25	205.943451	53.311737	48.795021
17	21	22	26	161.309006	16.499268	32.133308
16	21	22	27	94.753853	4.981764	24.77573
15	20	23	28	166.31517	17.248724	21.721172
14	20	23	29	285.167542	19.815815	19.647346
13	20	23	30	259.928406	12.296307	17.338732
12	20	23	31	287.422089	9.336199	14.966865
11	20	23	32	407.959412	9.431123	13.072773
10	19	24	33	186.454666	5.757744	12.223588
9	19	24	34	269.646851	6.410009	11.202215
8	19	24	35	219.010117	4.193316	10.586576
7	19	24	36	269.151031	4.233171	10.079758
	19	24	37	240.86763	3.266547	9.969555
	18	25	38	85.614647	1.549994	10.562404
	18	25	39	205.75647	3.375978	10.82469
	18	25	40	229.286758	3.420717	11.047764



2	18	25	41	218.865356	2.990251	11.282339
1	18	25	42	273.509033	3.532864	11.825981
19	20	21	22	230.291458	820.840759	111.977257
18	20	21	23	177.204437	138.228943	73.518257
17	20	21	24	184.274307	36.871212	37.715782
16	20	21	25	160.448105	12.309732	24.102543
15	20	21	26	187.972565	8.417838	21.103109
14	19	22	27	133.338547	13.274859	20.851219
13	19	22	28	194.485413	12.491717	18.160465
12	19	22	29	282.393982	12.200794	15.835407
11	19	22	30	366.58725	11.466421	14.412241
10	19	22	31	305.135742	7.093338	13.145572
9	18	23	32	310.578735	9.435451	12.025702
8	18	23	33	158.189041	3.712453	11.05918
7	18	23	34	253.842941	4.709412	10.258032
6	18	23	35	234.99733	3.648596	9.950459
5	18	23	36	282.753723	3.794949	9.866495
4	17	24	37	238.934586	4.227045	10.321735
3	17	24	38	91.707848	1.472603	10.594025
2	17	24	39	177.152283	2.605476	10.891205
1	17	24	40	213.716599	2.98692	11.5413
18	19	20	21	132.078003	606.795959	144.331497
17	19	20	22	164.432297	126.596931	72.561592
16	19	20	23	142.630264	31.518921	41.654327
15	19	20	24	220.12883	19.850229	28.329428
14	19	20	25	316.859467	15.423766	22.938473
13	18	21	26	224.940506	22.914082	21.335011
12	18	21	27	132.906311	8.171453	17.383833
11	18	21	28	248.304825	10.414893	15.373262
10	18	21	29	299.21637	9.009698	13.87414
9	18	21	30	285.806335	6.566773	12.992758
8	17	22	31	236.290375	7.556571	12.658995
7	17	22	32	289.851044	6.981875	11.351098
6	17	22	33	166.444427	3.262452	10.837641
5	17	22	34	265.50592	4.350861	10.502216
	17	22	35	233.297745	3.320661	10.463558
	16	23	36	347.272766	6.311686	10.604003
	16	23	37	201.244766	3.291212	10.789478
	16	23	38	89.127708	1.363395	11.32801



17	18	19	20	192.317566	723.216553	118.140373
16	18	19	21	111.887756	94.343208	79.469269
15	18	19	22	192.056473	48.940258	48.032799
14	18	19	23	253.572021	31.06863	38.491974
13	18	19	24	272.62027	17.385813	30.052296
12	17	20	25	313.228638	34.273041	22.916567
11	17	20	26	300.131989	21.912884	20.643303
10	17	20	27	136.18988	6.40653	17.241495
9	17	20	28	208.76181	7.047775	15.555436
8	17	20	29	232.795609	5.824138	14.147478
7	16	21	30	268.228241	8.614203	12.712495
6	16	21	31	255.059814	6.41244	11.847377
5	16	21	32	306.252441	6.148788	11.101265
4	16	21	33	165.522232	2.847714	11.026047
3	16	21	34	322.045715	4.749372	10.841373
2	15	22	35	197.078415	3.863185	11.436698
1	15	22	36	312.606842	5.462684	11.528604
16	17	18	19	133.439972	697.999146	164.329971
15	17	18	20	231.188461	188.091141	76.678238
14	17	18	21	169.182327	44.455433	49.530231
13	17	18	22	230.917023	25.571392	34.789482
12	17	18	23	251.461319	15.328102	28.724855
11	16	19	24	391.753326	46.948528	25.099642
10	16	19	25	334.075775	25.35915	21.462572
9	16	19	26	244.06929	13.157914	19.75922
8	16	19	27	120.470871	4.314424	16.501408
7	16	19	28	199.022614	5.124386	14.560007
6	15	20	29	250.905441	9.007975	14.211414
5	15	20	30	282.223114	8.155985	13.618356
4	15	20	31	252.750916	6.030933	13.193334
3	15	20	32	382.90036	7.576004	12.680434
2	15	20	33	146.390747	2.498304	12.545789
1	14	21	34	292.343964	6.561173	13.0943
15	16	17	18	143.180435	638.705688	140.141327
14	16	17	19	225.689987	165.906998	69.282417
	16	17	20	290.328247	54.220722	35.202698
	16	17	21	168.221924	12.405367	23.167328
	16	17	22	310.420563	12.640939	19.189764
	15	18	23	264.547302	29.353754	23.239075



9	15	18	24	301.08194	22.304052	20.945498
8	15	18	25	253.227585	13.168873	19.060492
7	15	18	26	231.094452	9.123975	18.191792
6	15	18	27	125.257256	3.581476	16.168903
5	14	19	28	205.589157	8.285299	15.952472
4	14	19	29	248.835388	8.028077	15.203392
3	14	19	30	345.923767	9.253535	14.790729
2	14	19	31	210.958511	4.772471	14.498648
1	14	19	32	341.116852	6.811757	14.67981
14	15	16	17	162.063095	912.716492	176.929794
13	15	16	18	163.575989	139.380951	80.30722
12	15	16	19	223.999237	42.141277	35.461849
11	15	16	20	429.727478	32.394638	23.682514
10	15	16	21	173.52066	7.561683	20.53565
9	14	17	22	250.830444	23.39242	19.53229
8	14	17	23	211.257721	14.031457	18.779427
7	14	17	24	281.740509	14.035339	18.258715
6	14	17	25	275.109924	10.320776	17.285711
5	14	17	26	240.656433	7.45685	17.521862
4	13	18	27	124.788887	5.770289	18.303865
3	13	18	28	238.549469	9.077383	17.931774
2	13	18	29	208.017197	6.525012	17.343845
1	13	18	30	311.610626	8.425533	17.328655
13	14	15	16	133.874176	655.452087	153.813004
12	14	15	17	161.389786	114.209068	66.695305
11	14	15	18	200.236816	34.052448	32.055702
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9	14	15	20	323.726776	12.912286	18.796003
8	13	16	21	148.819092	14.833612	20.875969
7	13	16	22	237.264023	16.984213	20.239784
6	13	16	23	226.252426	12.495039	20.241421
5	13	16	24	297.349182	13.24998	20.531876
4	13	16	25	272.164642	9.565443	19.874449
3	12	17	26	286.113312	14.854935	20.551962
2	12	17	27	113.446442	4.805105	19.959585
	12	17	28	222.002502	7.876956	19.618374
	13	14	15	187.940002	966.601074	161.576126
	13	14	16	157.344391	137.872467	82.584267
	13	14	17	166.62326	34.27047	38.769073



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8	13	14	19	191.706985	9.206315	22.630222
7	12	15	20	301.287476	31.216944	21.700411
6	12	15	21	156.316986	12.039492	21.77685
5	12	15	22	247.205887	14.970127	22.195425
4	12	15	23	224.493149	10.991739	22.560268
3	12	15	24	368.55896	14.88774	22.842508
2	11	16	25	224.102661	11.90236	21.023544
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5	11	14	20	319.629547	24.696302	21.846264
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8	11	12	15	164.281754	33.379257	38.299042
7	11	12	16	136.03418	10.250241	23.672039
6	11	12	17	150.545074	5.894439	18.45088
5	10	13	18	171.468048	16.52177	20.180527
4	10	13	19	202.555832	14.776165	20.625746
3	10	13	20	401.645233	22.939173	20.933002
2	10	13	21	137.977386	6.38284	21.315069
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7	10	11	14	232.335114	45.902538	37.241096
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	9	12	18	193.697968	12.594045	18.383684
	9	12	19	174.632675	8.920519	18.722393
	9	12	20	356.946136	15.398148	19.876825



8	9	10	11	244.53302	1396.673218	179.434769
7	9	10	12	230.635361	184.53334	75.408401
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5	9	10	14	242.935013	16.297075	21.075068
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1	8	11	18	182.681717	9.13868	18.335175
7	8	9	10	241.972198	1469.435913	190.780899
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6	7	8	9	220.143082	1073.435669	153.186478
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1	6	9	14	264.291779	22.613127	17.919897
5	6	7	8	203.413376	824.994507	127.415115
4	6	7	9	218.215958	120.737343	52.146587
3	6	7	10	302.837677	45.715378	28.454666
2	6	7	11	217.047485	15.051879	21.786402
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3	5	6	8	234.912186	78.547928	31.513754
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Nilai Koordinat Lintasan akuisisi Data

No.	x	y	elevasi
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2	793713	9430854	51
3	793718	9430853	51
4	793724	9430850	51
5	793727	9430847	52
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9	793748	9430843	52
10	793751	9430839	52
11	793756	9430837	52
12	793762	9430835	53
13	793766	9430834	53
14	793771	9430833	53
15	793774	9430833	53
16	793775	9430830	53
17	793784	9430826	54
18	793789	9430825	55
19	793793	9430823	54
20	793796	9430823	55
21	793806	9430820	55
22	793805	9430818	55
23	793813	9430819	55
24	793818	9430817	54
25	793822	9430815	55
26	793825	9430814	53
27	793830	9430813	53
28	793836	9430811	53
29	793840	9430811	53
30	793845	9430808	53
31	793849	9430807	51
32	793855	9430806	53
33	793861	9430048	53
34	793866	9430804	52
35	793861	9430802	54
36	793875	9430800	53
37	793880	9430799	52
38	793866	9430797	52
39	793890	9430796	52
40	793895	9430795	53



Lampiran IX Dokumentasi Kegiatan Pengambilan Data





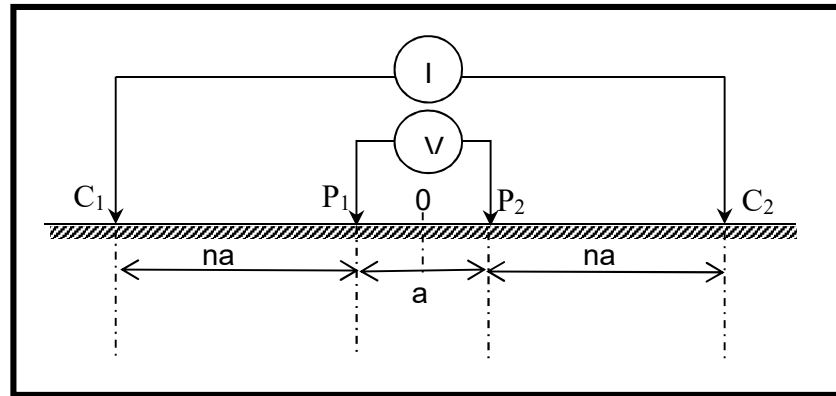
Optimization Software:
www.balesio.com

Lampiran X Dokumentasi Jenis batuan



Lampiran XI Turunan Rumus-rumus

Faktor Geometri Wenner Schlumberger



Berdasarkan persamaan (2.5) maka dapat diperoleh faktor geometri Wenner-Schlumberger sebagai berikut :

$$\begin{aligned}
 k &= 2\pi \left(\frac{1}{\left(\frac{1}{r_1} - \frac{1}{r_2}\right) - \left(\frac{1}{r_3} - \frac{1}{r_4}\right)} \right) \\
 &= 2\pi \left(\frac{1}{\left(\frac{1}{na} - \frac{1}{(a+na)}\right) - \left(\frac{1}{(a+na)} - \frac{1}{na}\right)} \right) \\
 &= 2\pi \left(\frac{1}{\left(\frac{1}{(a+na)-na} - \frac{1}{na-(a+na)}\right)} \right) \\
 &= 2\pi \left(\frac{1}{\left(\frac{a}{a(na+n^2a)}\right) + \left(\frac{a}{a(na+n^2a)}\right)} \right) \\
 &= 2\pi \left(\frac{1}{\frac{2a}{a(na+n^2a)}} \right) \\
 &= \frac{2\pi}{2} \\
 &= \frac{1\pi}{1} \\
 &= \frac{1\pi}{(na+n^2a)}
 \end{aligned}$$

$$\pi (na + n^2a)$$

$$\pi n(n + 1) a$$

