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# LAMPIRAN

**LAMPIRAN A DATA COLLAR LDD**

<i>BoreholeID</i>	<i>Northing</i>	<i>Easting</i>	<i>Elevation</i>	<i>Depth(m)</i>
L100047	335,800.00	9,720,400.00	647,80	24,00
L100048	335,800.00	9,720,200.00	600,87	14,00
L100050	335,599.45	9,721,200.10	733,63	25,00
L100051	335,799.51	9,721,200.01	734,45	20,00
L100055	335,999.66	9,721,199.85	761,71	22,00
L100056	336,199.73	9,721,199.82	749,60	11,00
L100057	336,399.74	9,721,199.80	760,02	19,00
L100059	335,199.65	9,721,000.03	679,98	19,00
L100060	335,599.53	9,721,000.03	694,97	30,00
L100061	335,399.57	9,721,000.01	698,11	27,00
L100064	335,800.08	9,720,999.74	717,20	16,00
L100067	335,399.59	9,720,799.99	684,65	18,00
L100068	336,399.90	9,720,799.89	744,07	18,00
L100069	336,099.95	9,720,799.85	720,22	28,00
L100070	336,599.11	9,720,799.61	749,81	17,00
L100071	336,799.05	9,720,799.24	748,13	14,00
L100072	336,399.02	9,720,599.87	708,98	16,00

**LAMPIRAN B DATA COLLAR HQ**

<i>BoreholeID</i>	<i>Northing</i>	<i>Easting</i>	<i>Elevation</i>	<i>Depth(m)</i>
C173024	9,721,199.80	336,399.74	760,02	13,00
C173026	9,721,199.82	336,199.73	749,60	13,00
C173028	9,721,199.85	335,999.66	761,71	18,00
C173032	9,721,200.10	335,599.45	733,63	19,80
C173071	9,720,999.71	335,999.77	734,45	21,35
C173073	9,720,999.74	335,800.08	717,20	17,00
C173075	9,721,000.03	335,599.53	694,97	15,75
C173077	9,721,000.01	335,399.57	698,11	38,00
C173079	9,721,000.03	335,199.65	679,98	11,00
C173108	9,720,799.24	336,799.05	748,13	15,00
C173110	9,720,799.61	336,599.11	749,81	17,00
C173112	9,720,799.89	336,399.90	744,07	17,00
C173115	9,720,799.85	336,099.95	720,22	28,00
C173121	9,720,799.99	335,399.59	684,65	27,00
C173200	9,720,399.81	335,799.29	647,80	26,00
C173239	9,720,199.88	335,799.36	600,87	13,00
C196790	9,720,599.87	336,399.02	708,98	13,00

**LAMPIRAN C DATA ASSAY LDD**

<i>BoreholeID</i>	<i>From(m)</i>	<i>To(m)</i>	<i>Ni(%)</i>	<i>Co(%)</i>	<i>Fe(%)</i>	<i>Sio2(%)</i>	<i>Mgo(%)</i>
L100047	0,00	1,00	0,56	0,018	47,77	2,53	1,66
L100047	1,00	2,00	0,46	0,013	48,59	1,93	1,30
L100047	2,00	3,00	0,41	0,012	47,43	1,27	1,01
L100047	3,00	4,00	0,74	0,015	47,88	1,90	1,25
L100047	4,00	5,00	0,86	0,018	48,05	1,72	0,97
L100047	5,00	6,00	0,90	0,041	48,57	1,77	1,05
L100047	6,00	7,00	1,01	0,051	48,85	1,88	0,96
L100047	7,00	8,00	1,28	0,094	47,85	2,01	1,03
L100047	8,00	9,00	1,40	0,128	44,38	4,99	2,33
L100047	9,00	10,00	1,10	0,108	47,11	1,93	0,98
L100047	10,00	11,00	1,38	0,147	46,06	2,90	1,28
L100047	11,00	12,00	1,29	0,126	44,39	2,44	1,04
L100047	12,00	13,00	1,28	0,126	46,20	2,90	1,19
L100047	13,00	14,00	1,41	0,142	46,15	2,78	1,18
L100047	14,00	14,30	1,04	0,024	12,25	38,73	21,68
L100047	14,30	15,00	1,50	0,096	38,48	12,88	5,28
L100047	15,00	16,00	1,48	0,114	33,18	18,60	9,64
L100047	16,00	17,00	1,27	0,023	10,35	42,98	20,07
L100047	17,00	18,00	1,66	0,108	30,84	20,32	11,36
L100047	18,00	19,00	1,63	0,086	27,02	22,66	15,25
L100047	19,00	19,55	1,53	0,015	9,03	41,21	29,72
L100047	19,55	20,00	1,42	0,013	8,34	43,12	27,51
L100047	20,00	21,00	1,10	0,017	8,30	42,47	27,91
L100047	21,00	22,00	0,21	0,009	4,93	48,35	31,10
L100047	22,00	23,00	0,20	0,010	5,18	52,89	30,46
L100047	23,00	23,20	0,19	0,009	4,94	50,70	28,47
L100047	23,20	24,00	0,28	0,013	6,08	44,32	32,96
L100048	0,00	1,00	1,14	0,166	42,85	7,50	3,46
L100048	1,00	2,00	1,48	0,239	45,66	3,26	1,14
L100048	2,00	3,00	1,51	0,164	45,95	4,36	1,33
L100048	3,00	3,55	1,86	0,024	11,06	38,23	31,83

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L100048	3,55	4,00	2,26	0,025	12,28	39,26	25,47
L100048	4,00	4,30	1,79	0,015	7,90	41,76	32,36
L100048	4,30	4,60	2,38	0,032	15,96	36,22	22,02
L100048	4,60	5,00	1,46	0,018	10,52	44,55	26,86
L100048	5,00	5,75	1,13	0,013	6,90	44,19	34,76
L100048	5,75	6,00	2,24	0,024	11,09	41,35	25,51
L100048	6,00	6,55	2,47	0,027	13,31	38,22	23,72
L100048	6,55	7,00	1,56	0,015	7,41	41,06	34,70
L100048	7,00	7,60	0,99	0,013	7,07	40,42	35,28
L100048	7,60	8,00	2,09	0,023	11,68	37,68	27,50
L100048	8,00	9,00	1,95	0,022	11,17	38,89	28,54

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**LAMPIRAN D DATA ASSAY HQ**

<i>Borehole ID</i>	<i>FROM(m)</i>	<i>TO(m)</i>	<i>Ni(%)</i>	<i>Co(%)</i>	<i>Fe(%)</i>	<i>SiO2(%)</i>	<i>MgO(%)</i>
C173032	0	0,1	-999	-999	-999	-999	-999
C173032	0,1	1	0,74	0,12	46,6	3,5	1,5
C173032	1	2	0,68	0,1	45,7	3,4	1,3
C173032	2	2,85	0,8	0,13	45,7	3,4	1,4
C173032	2,85	3	0,86	0,01	7,8	37,8	28,3
C173032	3	4	0,96	0,01	7,06	37,52	28,99
C173032	4	5	1,96	0,04	18,2	34,1	14,1
C173032	5	5,6	1,74	0,03	15,6	38,6	15,6
C173032	5,6	6	1,71	0,02	12	39,2	21,6
C173032	6	6,5	1,19	0,01	6,88	36,65	27,04
C173032	6,5	7	1,38	0,01	9,7	36,5	24,9
C173032	7	7,2	1,97	0,01	10,6	38,4	23,8
C173032	7,2	8	1,96	0,02	12,5	39,2	18,2
C173032	8	8,3	1,73	0,01	8,7	37,6	23
C173032	8,3	9	1,44	0,03	15,4	39,2	14,4
C173032	9	10	1,47	0,02	13,7	37,5	15,3
C173032	10	11	1,59	0,03	14,9	38,7	15,8
C173032	11	11,4	1,66	0,01	9,7	37,6	23
C173032	11,4	11,7	1,32	0,01	7,4	40,1	28,7
C173032	11,7	12	1,24	0,02	12,2	40	19,2
C173032	12	12,7	1,42	0,03	15	38,7	14
C173032	12,7	13	1,34	0,01	8,4	40,3	25,7
C173032	13	14	1,07	0,02	12,9	40,8	18,3
C173032	14	14,3	1,32	0,03	13,8	40,3	17,7
C173032	14,3	14,7	0,85	0,02	11,87	35,68	24,37
C173032	14,7	15	1,03	0,03	17,3	36,6	11
C173032	15	16	0,71	0,03	16,7	36,7	10,6
C173032	16	17	0,66	0,03	14,5	39,8	14,5
C173032	17	18	0,42	0	6,03	37,26	28,62
C173032	18	19	0,3	0	5,56	37	30,21
C173032	19	19,8	0,37	0	5,74	38,74	31,69



C173073	0	0,25	-999	-999	-999	-999	-999
C173073	0,25	1	0,65	0,15	46,5	1,8	1
C173073	1	2	0,75	0,15	47,2	1,9	1
C173073	2	3	0,79	0,18	47,4	1,9	1
C173073	3	4	0,73	0,19	44,9	2,1	1,1
C173073	4	5	0,87	0,19	47,8	2,2	1
C173073	5	6	0,8	0,13	43,4	2	1
C173073	6	7	0,86	0,17	44,9	2,1	1
C173073	7	8	3,48	0,01	8,4	37,5	26,4
C173073	8	8,47	1,18	0,1	27,61	21,15	17,29
C173073	8,47	9	2,95	0,03	14,7	33,3	21,2
C173073	9	10	2,86	0,02	10,1	37,7	27,4

**LAMPIRAN E DATA GEOLOGY LDD**

<i>Hole_ID</i>	<i>From (m)</i>	<i>To (m)</i>	<i>Layer</i>
L100047	0,00	1,00	LIM
L100047	1,00	2,00	LIM
L100047	2,00	3,00	LIM
L100047	3,00	4,00	LIM
L100047	4,00	5,00	LIM
L100047	5,00	6,00	LIM
L100047	6,00	7,00	LIM
L100047	7,00	8,00	LIM
L100047	8,00	9,00	LIM
L100047	9,00	10,00	LIM
L100047	10,00	11,00	LIM
L100047	11,00	12,00	LIM
L100047	12,00	13,00	LIM
L100047	13,00	14,00	LIM
L100047	14,00	14,30	SAP
L100047	14,30	15,00	SAP
L100047	15,00	16,00	SAP
L100047	16,00	17,00	SAP
L100047	17,00	18,00	SAP
L100047	18,00	19,00	SAP
L100047	19,00	19,55	SAP
L100047	19,55	20,00	SAP
L100047	20,00	21,00	SAP
L100047	21,00	22,00	BRK
L100047	22,00	23,00	BRK
L100047	23,00	23,20	BRK
L100047	23,20	24,00	BRK
<i>Hole_ID</i>	<i>From (m)</i>	<i>To (m)</i>	<i>Layer</i>
L100048	0,00	1,00	LIM
L100048	1,00	2,00	LIM
L100048	2,00	3,00	LIM

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L100048	3,00	3,55	SAP
L100048	3,55	4,00	SAP
L100048	4,00	4,30	SAP
L100048	4,30	4,60	SAP
L100048	4,60	5,00	SAP
L100048	5,00	5,75	SAP
L100048	5,75	6,00	SAP
L100048	6,00	6,55	SAP
L100048	6,55	7,00	SAP
L100048	7,00	7,60	SAP
L100048	7,60	8,00	SAP
L100048	8,00	9,00	SAP

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### LAMPIRAN F DATA GEOLOGY HQ

<i>Hole_ID</i>	<i>From (m)</i>	<i>To (m)</i>	<i>Layer</i>
C173032	0	0,1	LIM
C173032	0,1	1	LIM
C173032	1	2	LIM
C173032	2	2,85	LIM
C173032	2,85	3	SAP
C173032	3	4	SAP
C173032	4	5	SAP
C173032	5	5,6	SAP
C173032	5,6	6	SAP
C173032	6	6,5	SAP
C173032	6,5	7	SAP
C173032	7	7,2	SAP
C173032	7,2	8	SAP
C173032	8	8,3	SAP
C173032	8,3	9	SAP
C173032	9	10	SAP
C173032	10	11	SAP
C173032	11	11,4	SAP
C173032	11,4	11,7	SAP
C173032	11,7	12	SAP
C173032	12	12,7	SAP
C173032	12,7	13	SAP
C173032	13	14	SAP
C173032	14	14,3	SAP
C173032	14,3	14,7	SAP
C173032	14,7	15	SAP
C173032	15	16	SAP
C173032	16	17	SAP
C173032	17	18	BRK
C173032	18	19	BRK

C173032	19	19,8	BRK
<i>Hole_ID</i>	<i>From (m)</i>	<i>To (m)</i>	<i>Layer</i>
C173073	0	0,25	LIM
C173073	0,25	1	LIM
C173073	1	2	LIM
C173073	2	3	LIM
C173073	3	4	LIM
C173073	4	5	LIM
C173073	5	6	LIM
C173073	6	7	LIM
C173073	7	8	SAP
C173073	8	8,47	SAP
C173073	8,47	9	SAP

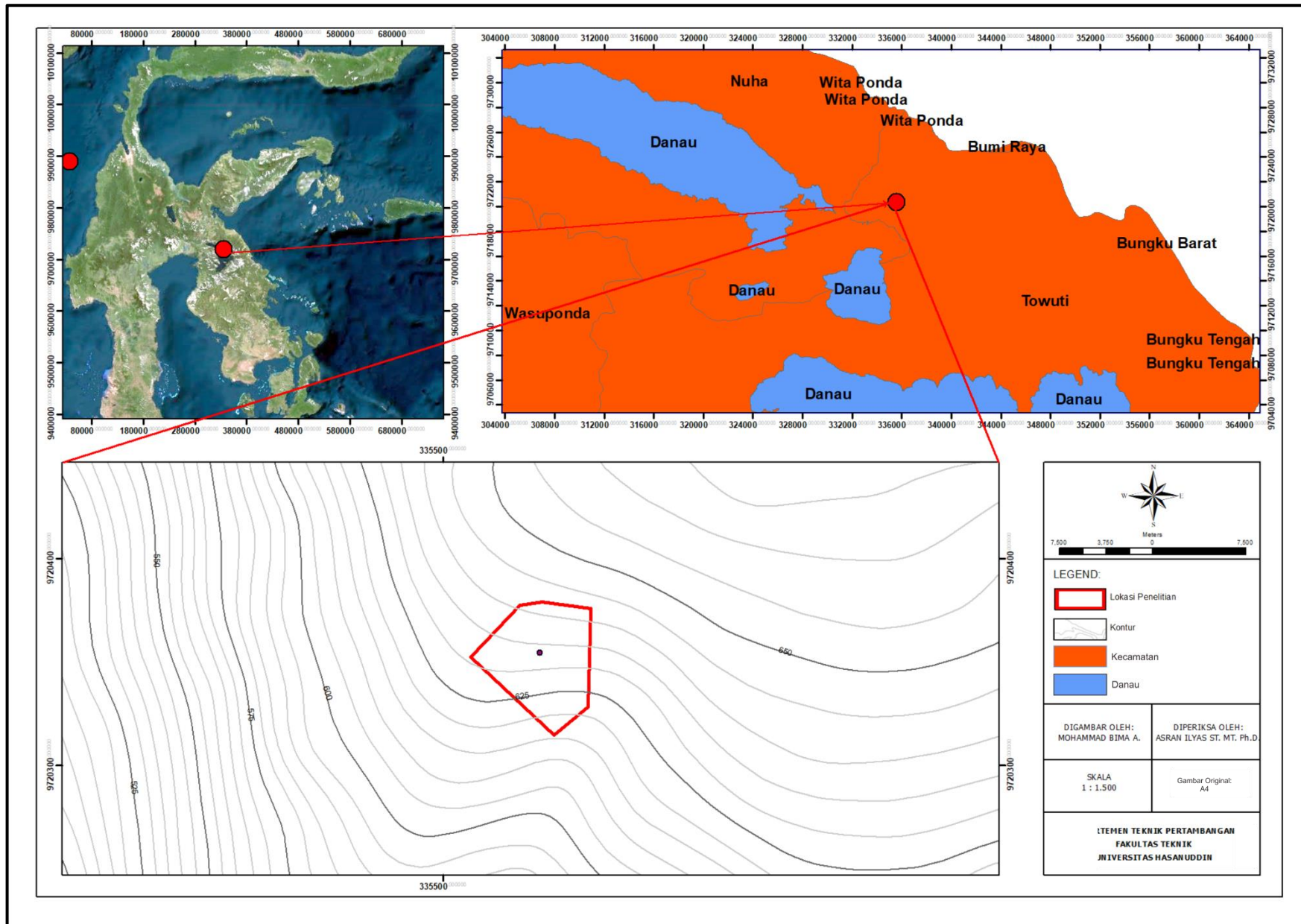
**LAMPIRAN G DATA SURVEY LDD**

<i>Borehole ID</i>	<i>DEPTH (m)</i>	<i>DIP (°)</i>	<i>AZIMUTH (°)</i>
L100047	24	-90	0
L100048	14	-90	0
L100050	25	-90	0
L100051	20	-90	0
L100055	22	-90	0
L100056	11	-90	0
L100057	19	-90	0
L100059	19	-90	0
L100060	30	-90	0
L100061	27	-90	0
L100064	16	-90	0
L100067	18	-90	0
L100068	18	-90	0
L100069	28	-90	0
L100070	17	-90	0
L100071	14	-90	0
L100072	16	-90	0

**LAMPIRAN H DATA SURVEY HQ**

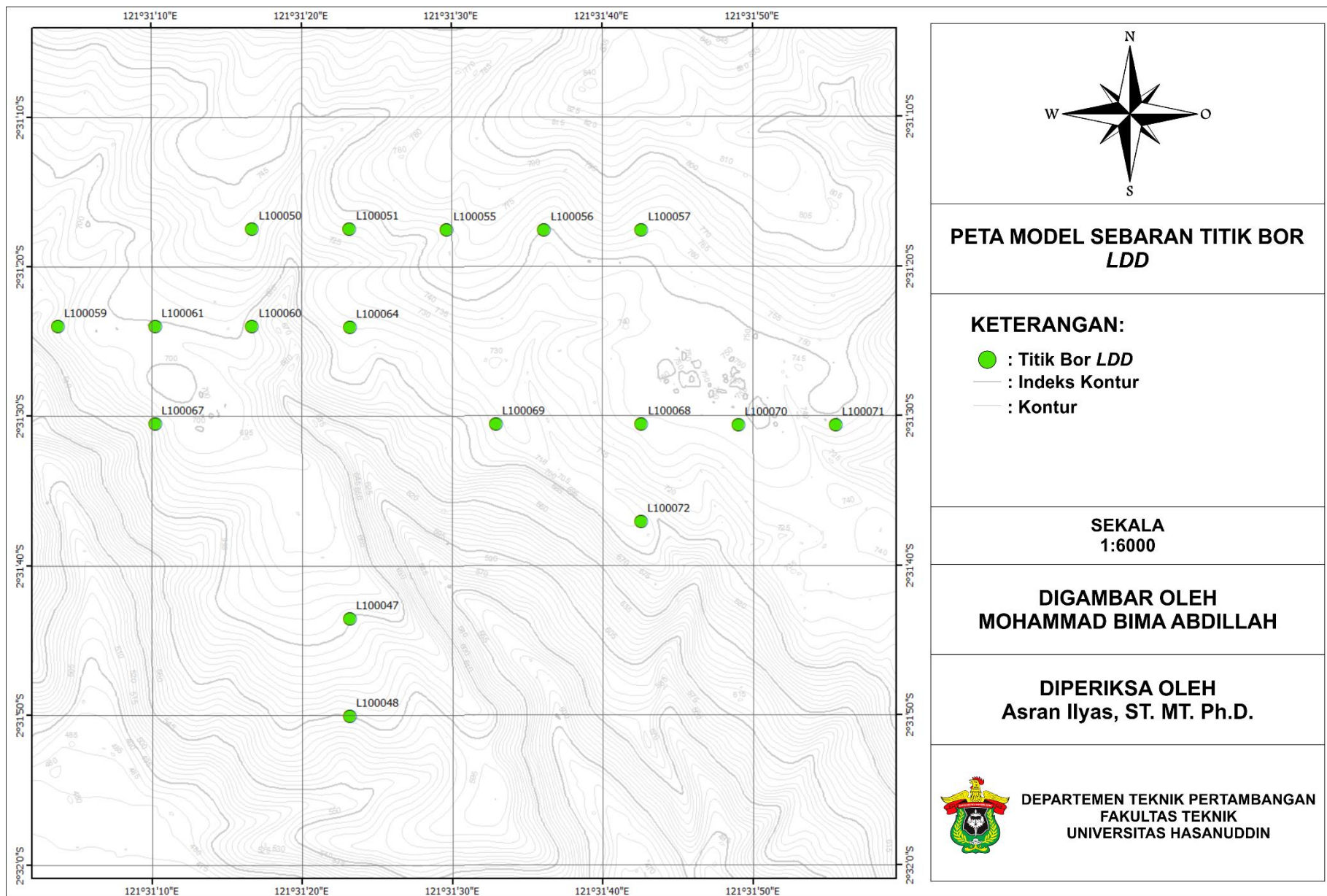
<i>Borehole ID</i>	<i>DEPTH (m)</i>	<i>DIP (°)</i>	<i>AZIMUTH (°)</i>
C173024	13,00	-90	0
C173026	13,00	-90	0
C173028	18,00	-90	0
C173032	19,80	-90	0
C173071	21,35	-90	0
C173073	17,00	-90	0
C173075	15,75	-90	0
C173077	38,00	-90	0
C173079	11,00	-90	0
C173108	15,00	-90	0
C173110	17,00	-90	0
C173112	17,00	-90	0
C173115	28,00	-90	0
C173121	27,00	-90	0
C173200	26,00	-90	0
C173239	13,00	-90	0
C196790	13,00	-90	0

## LAMPIRAN I PETA TUNJUK LOKASI PENELITIAN

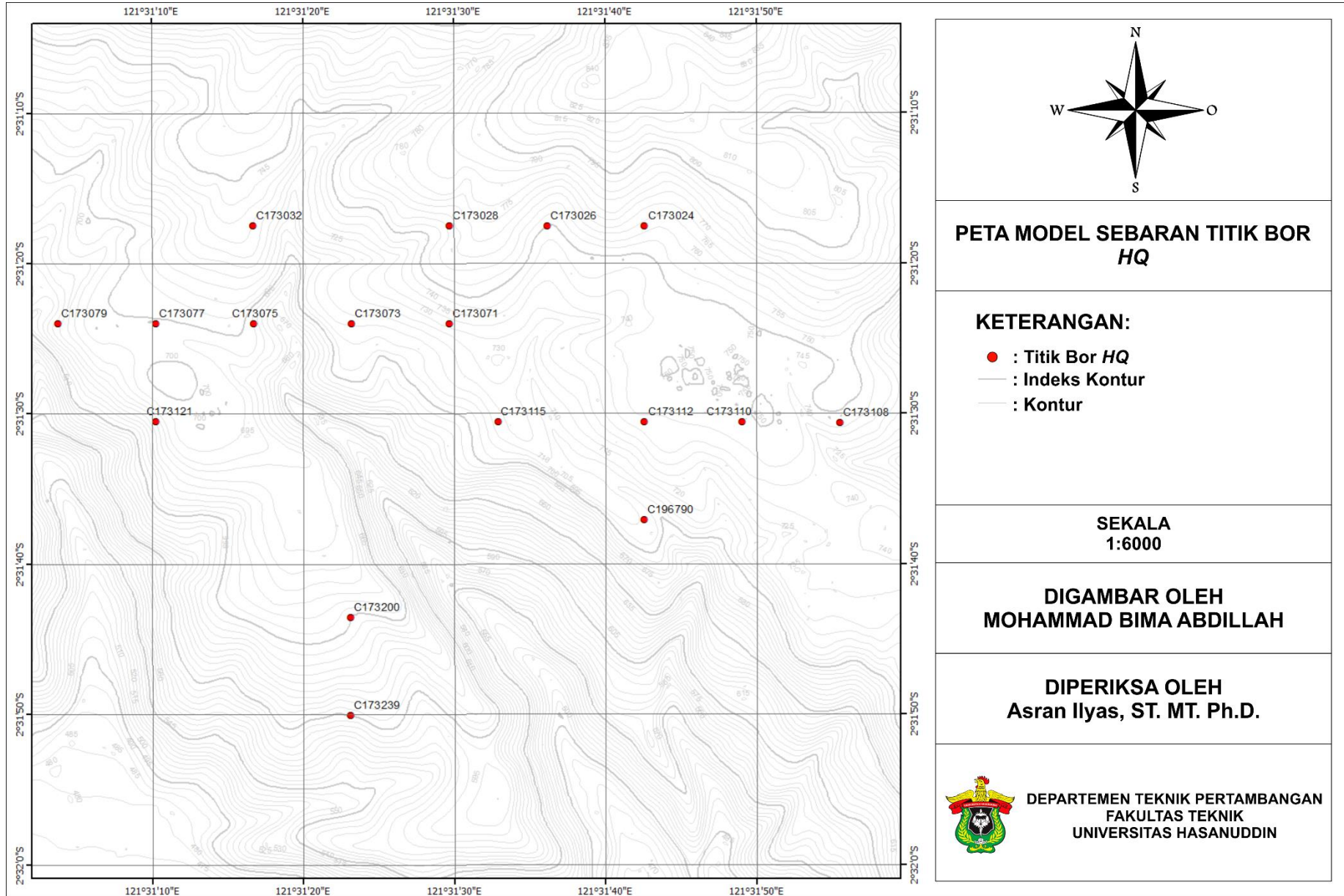




## LAMPIRAN J PETA SEBARAN TITIK BOR *LDD*



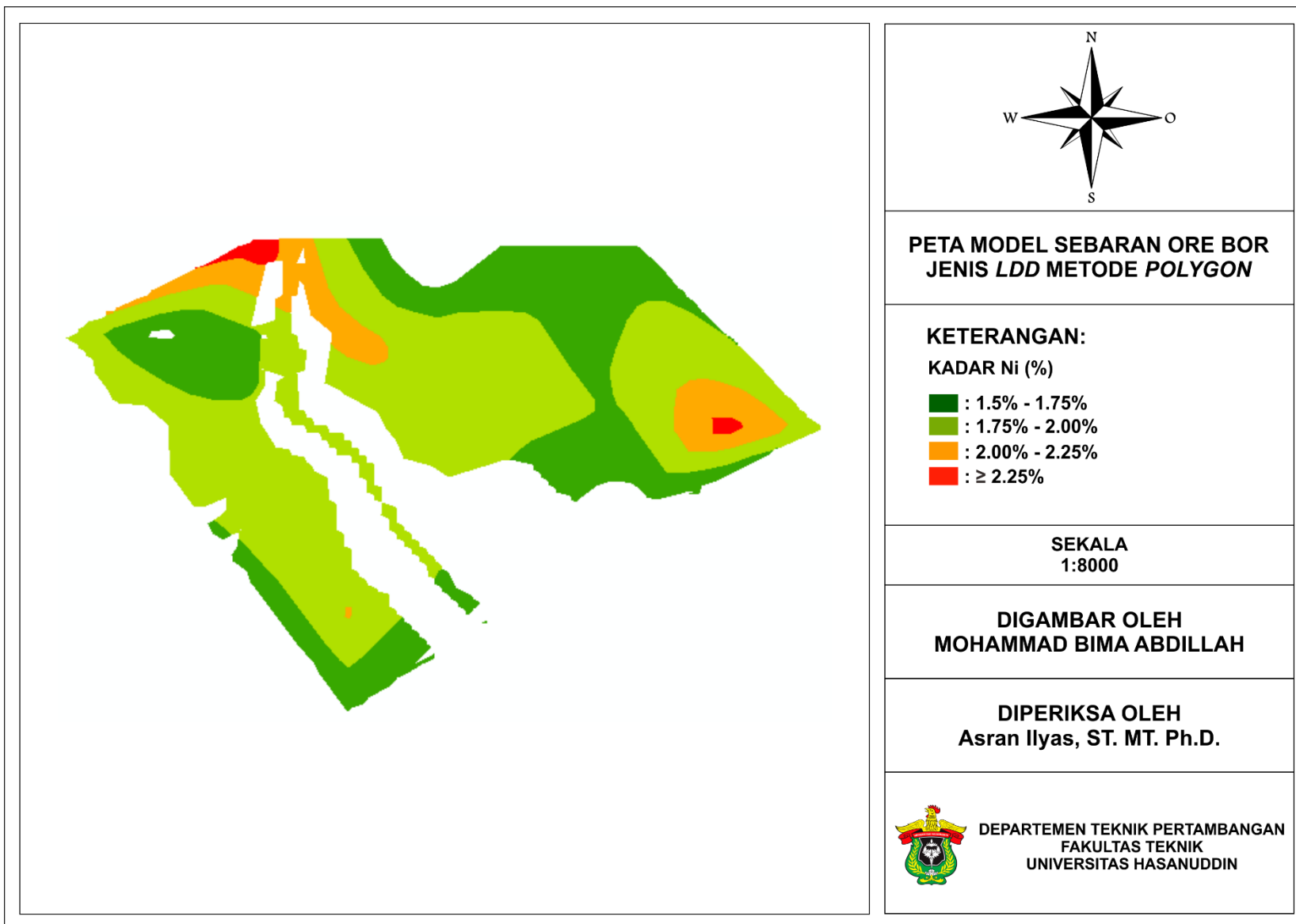
## LAMPIRAN K PETA SEBARAN TITIK BOR HQ



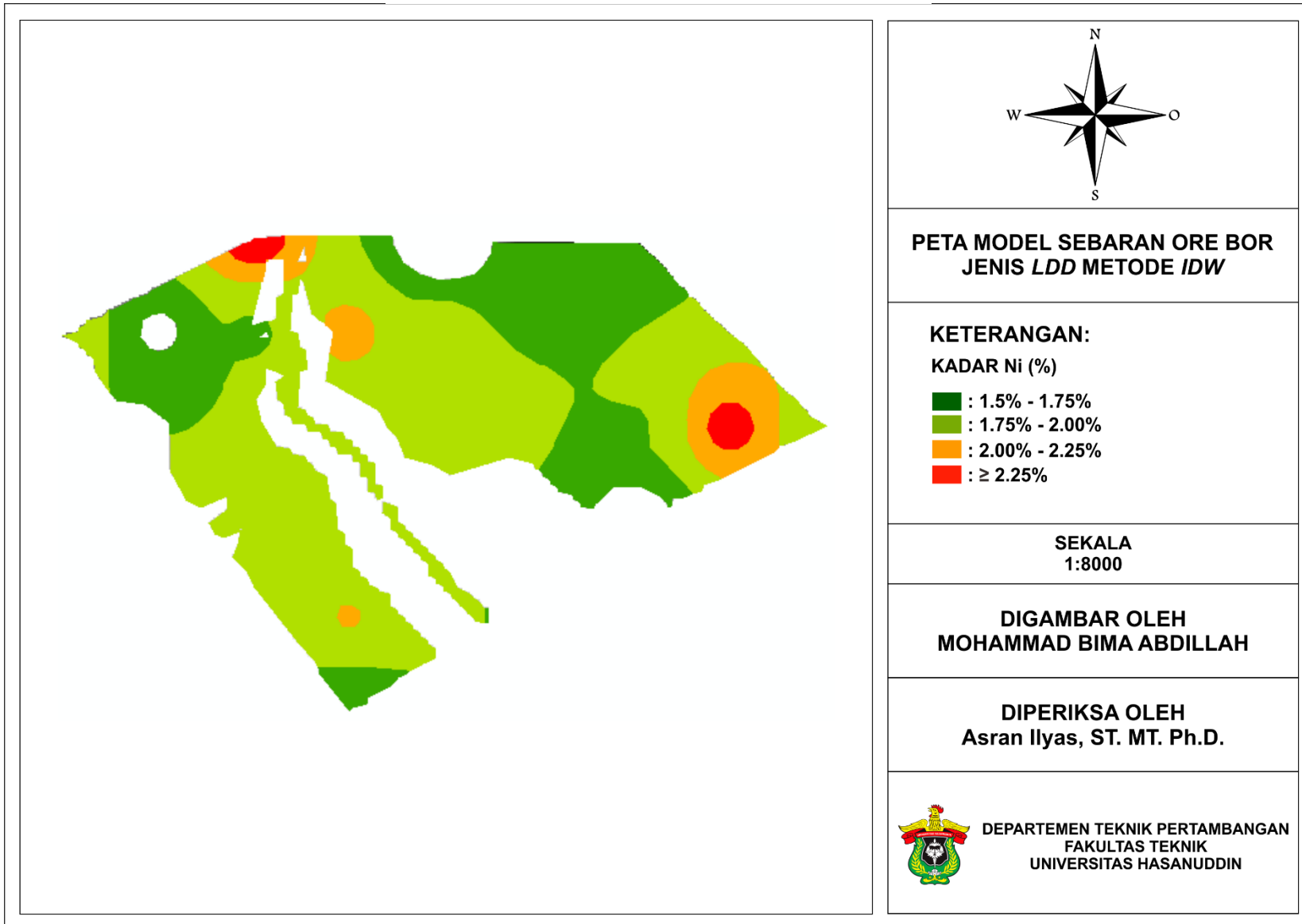
### LAMPIRAN L TABEL PERHITUNGAN PENGOLAHAN DATA

JENIS DATA BOR	Produksi Real		ESTIMASI		IDW			POLYGON			Produksi real area kecil	
	IDW (ton)	POLYGON (ton)	IDW (ton)	POLYGON (ton)	SELISIH			SELISIH			luas (ha)	produksi (ton)
					(TON)	(%)	LUAS (ha)	(TON)	(%)	LUAS (ha)		
<i>HQ</i> (IDW)	6047219.58	5873304.945	6644731.151	6543025.887	597511.5715	0.098807653	70.168966	669720.9414	0.114027953	68.150946	14.472372	1247241
<i>LDD</i> (IDW)	5911197.535	5878855.853	6676867.311	6633730.24	765669.776	0.129528707	68.590633	754874.3878	0.128404983	68.215356		

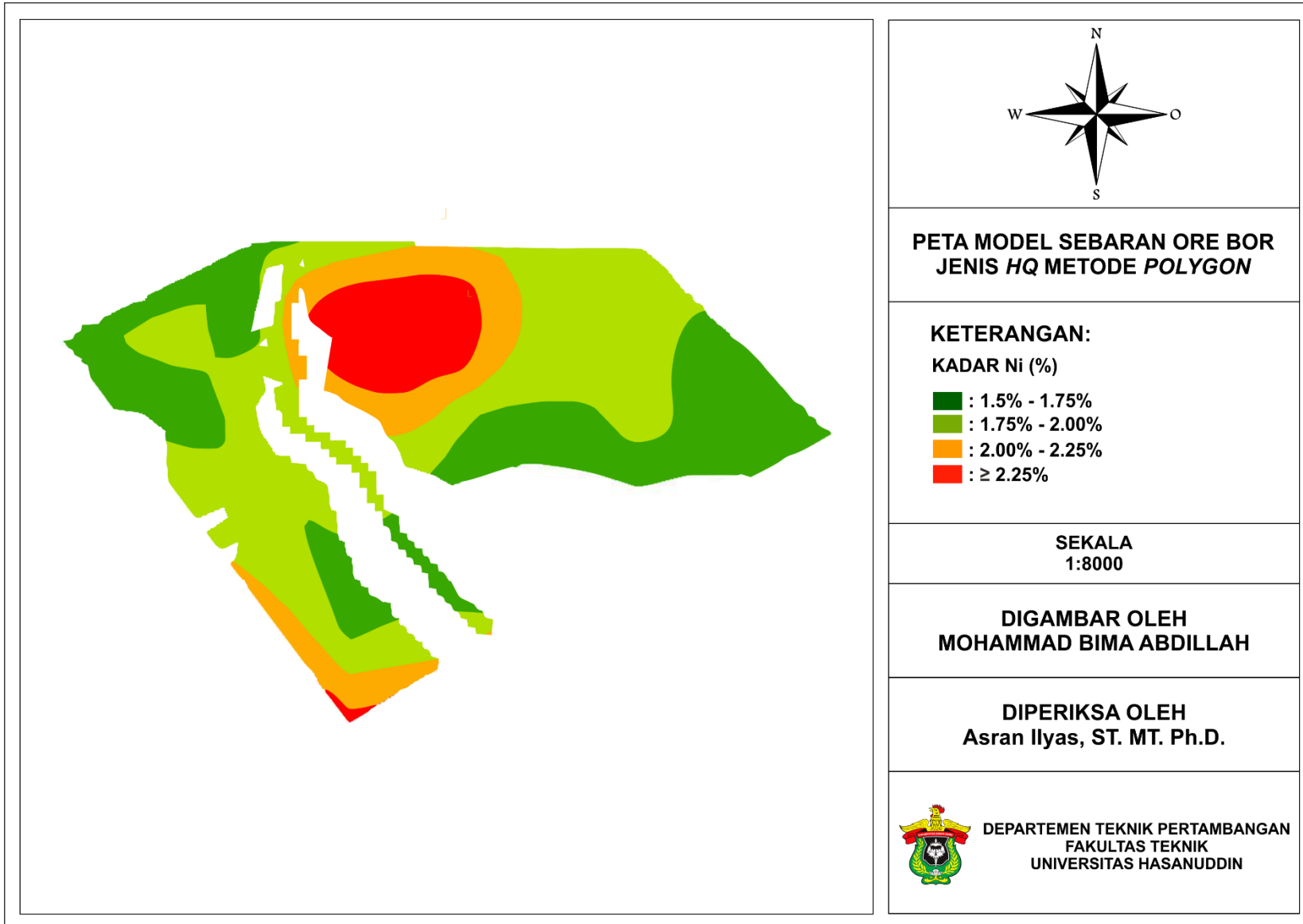
LAMPIRAN M MODEL SEBARAN ORE NI BOR  
*LDD POLYGON*



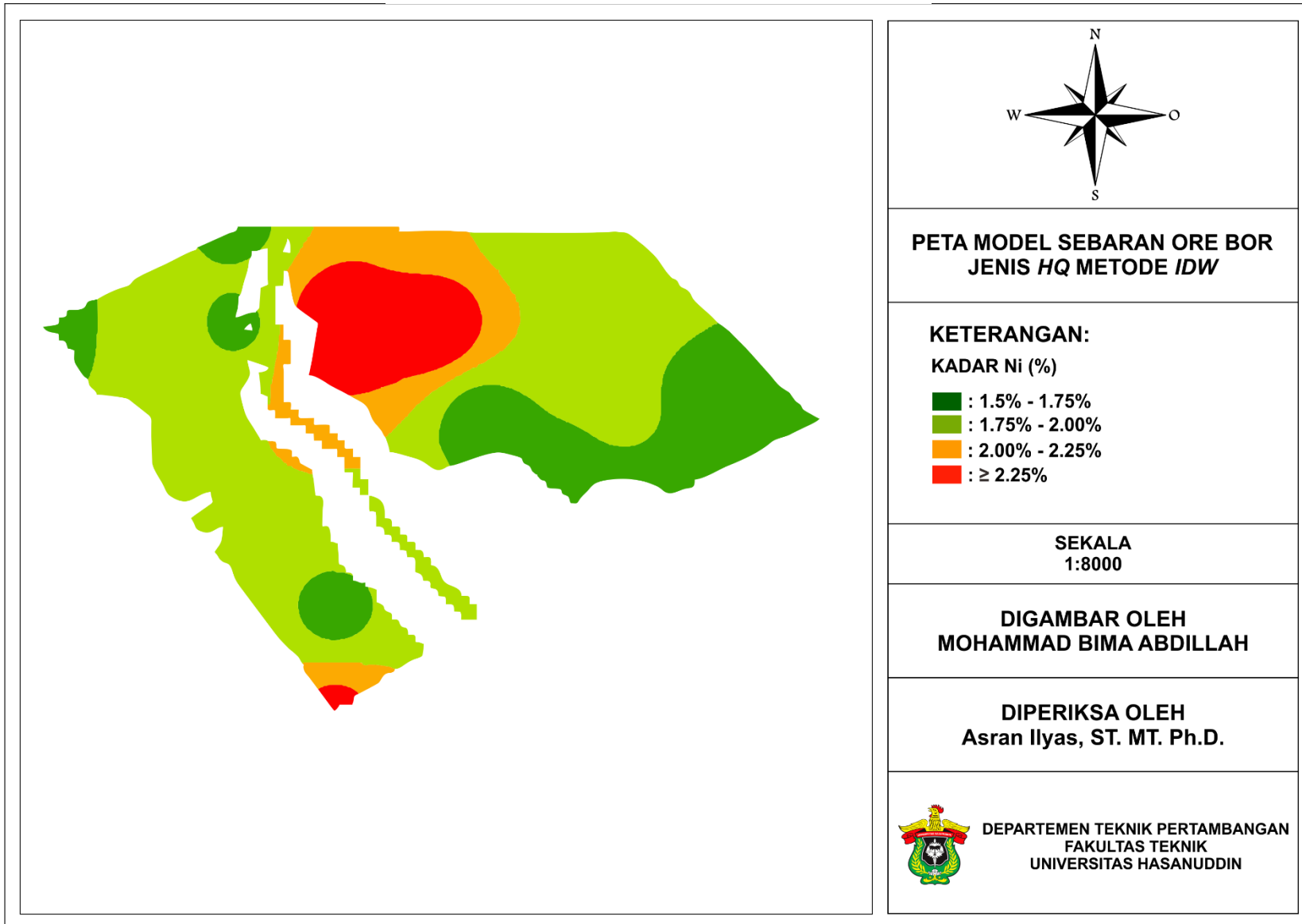
LAMPIRAN N MODEL SEBARAN ORE Ni BOR  
*LDD IDW*



LAMPIRAN O MODEL SEBARAN ORE Ni BOR  
*HQ POLYGON*



LAMPIRAN P MODEL SEBARAN ORE Ni BOR  
HQ IDW











Lampiran B 10

Kartu Konsultasi Tugas Akhir

**JUDUL:** SIMULASI PERBANDINGAN BOP LDD DAN HQ BERDASARKAN  
HASIL ESTIMASI SUMBERDAYA NIKEL LATOPIT DENGAN HASIL  
PRODUKSI MENGGUNAKAN METODE POLYGON DAN  
INVERSE DISTANCE WEIGHTING

(Konsultasi minimal 8 kali)

TANGGAL	MATERI KONSULTASI	PARAF DOSEN
07/04/21	Penentuan alur pengerjaan tugas Akhir	
07/04/21	Perbaikan pembahasan dan kesimpulan	
25/04/21	Perbaikan kesalahan penulisan	
28/04/21	Perbaikan tubuh skripsi	
05/05/21	menghilangkan tanda titik PT. Vale Perbaikan daftar pustaka Perbaikan kesalahan penulisan	
09/05/21	ACC	



TANGGAL	MATERI KONSULTASI	PARAF DOSEN
24/05/21	Perbaiki kesimpulan	/M —
24/05/21	Perbaiki penggunaan tanda titik koma	/M —
27/05/21	ACC	/M —