

2. Estimasi *kriging* dapat diujicobakan di perusahaan PT Timah Tbk dengan penelitian yang lebih mendalam.

DAFTAR PUSTAKA

- Ali, S., Sutanto, dan Suprpto. 2017. Studi Karakteristik Mineralisasi Timah Primer Tipe Endapan Greisen Blok Lembah Jambu, Tempilang, Bangka Barat, Kepulauan Bangka & Belitung. *Proceeding, Seminar Nasional Kebumihan Ke-10* (1149-1164). Yogyakarta: Grha Sabha Pramana.
- Annels, A., E., 1991. *Mineral Deposit Evaluation: A Practical Approach*. Chapman & Hall: London.
- Bankes, 2003. Estimation of Mineral Resources and Mineral Reserves Best Practice Guidelines. *Ensiklopedi Pertambangan Edisi 3*. Puslitbang Teknologi Mineral.
- Bargawa, W., S., 2016. Masalah Pencocokkan Model Variogram Pada Penaksiran Kadar Memakai Metode Geostatistika, Yogyakarta, *Prosiding TPT XXV Perhapi*. P. 360.
- Bohling, G., 2005. *Introduction To Geostatistics and Variogram Analysis*. Kansas Geology Survey.
- Coombes, J., 2008. *The Art and Science of Resource Estimation*. Coombes Capability: Perth.
- Cressie, N., A., C., 1990. *The Origins of Kriging, Mathematical Geology*.
- Cressie, N., A., C., 1993. *Statistics For Spatial Data*. New York: John Wiley and Sons, Inc.
- Crow, M., J., and Van L, T., M., 2005. *Metallic Mineral Deposits*. dalam: Geological Society Memoir No. 31-Sumatera. Geology, Resources, and Tectonic Evolution, Geological Society, UK p. 147-174.
- Goovaerts, P., 1997. *Geostatistical for Natural Resources*, (Applied Geostatistics Series), Oxford University, press: New York
- Hair Jr, Joseph F., W., C., B., B., J., B., R., E., A., 2014. *Multivariate Data Analysis*. 7 ed, London: United Kingdom, P. 34.
- Hartman, H., L., 1992. *SME Mining Engineering Handbook 2nd Edition Volume 1*. Society for Mining, Metallurgy and Exploration, Inc. Littleton: Colorado.
- Idrus, A., Titisari, A., D., Warmada, I., W., dan Setijadji, L., D., 2007. *Diktat Mata Kuliah Eksplorasi Sumberdaya Mineral*. UGM: Yogyakarta.
- Isaaks, E., H., and Srivastava, R., M., 1989. *Applied Geostatistics*, New York: Oxford University Press, P. 143.
- Katili, J., A., 1967. *Structure and age of the Indonesian tin belt, with reference to Bangka*. Tectonophysics, pp. 403-418.

- Kavalieris, I., Van Leeuwen, T., and Wilson, M., 1992. Geological Setting and Style of Mineralization, North Arm of Sulawesi, Indonesia, *Journal of Southeast Asian Earth Sciences*. vol.7.
- KCMI, 2017. *Kode Pelaporan Hasil Eksplorasi, Sumberdaya Mineral dan Cadangan Bijih*. Jakarta, Hal. 10-16.
- Kleijnen, J., P., and Van Beers, W., C., 2004. Application-Driven Sequential Designs for Simulation Experiments: Kriging Metamodelling, *Journal of the Operational Research Society*.
- Laveine, J., P., Ratanasthein, B., and Azhar, H., H., 1999, The Carboniferous floras of Southeast Asia: implications for the relationships and timing of accretion of some Southeast Asian Blocks. In: Metcalfe, I. (Ed.), *Gondwana Dispersion and Asian Accretion*. Final Results Volume for IGCP Project 321. A.A. Balkema, Rotterdam, pp. 229–246.
- Metcalfe, I., 2000. The Bentong-Raub Suture Zone. *Jurnal Asian Earth Science*. vol. 18, pp. 691 – 712. 73.
- Metcalfe, I., 1996, Gondwanaland dispersion, *Asian accretion and evolution of Eastern Tethys*, Aust, J, Earth Sci, 43, pp. 605–623.
- Metcalfe, I., 2011, Tectonic framework and Phanerozoic evolution of Sundaland, *Gondwana Research*.
- Osberger, R., 1965, *On the Geology of the Indonesian Part of the Great Tintiridle and on Tinplacer-deposits - A Symposium*. Bandung, UPTB, Unpubl, pp. 151.
- Ramadhan, S., 2015. *Studi Mineralisasi Endapan Timah Primer Berdasarkan Kajian Geologi Permukaan dan Analisis XRF Unsur Sn pada Wilayah Kerja Blok Primer PT. TIMAH (Persero) Tbk, Daerah Air Inas dan Sekitarnya, Bangka Selatan, Semarang*, Universitas Diponegara.
- Tjia, H., D., 1989. *Tectonic history of the Bentong–Bengkalis Suture*. Geologi Indonesia 12, 89–111.
- Smimov, V., I., 1976. *Geology of Mineral Deposits*, MIR Publishers, Moscow, 520 pp.
- Van Bemmelen, R., W., 1949. The Geology of Indonesia. *Government Printing Office, The Hague*. 732 pp. (vol. 11, 265 pp. (vol. 2).

LAMPIRAN

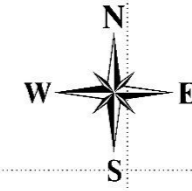
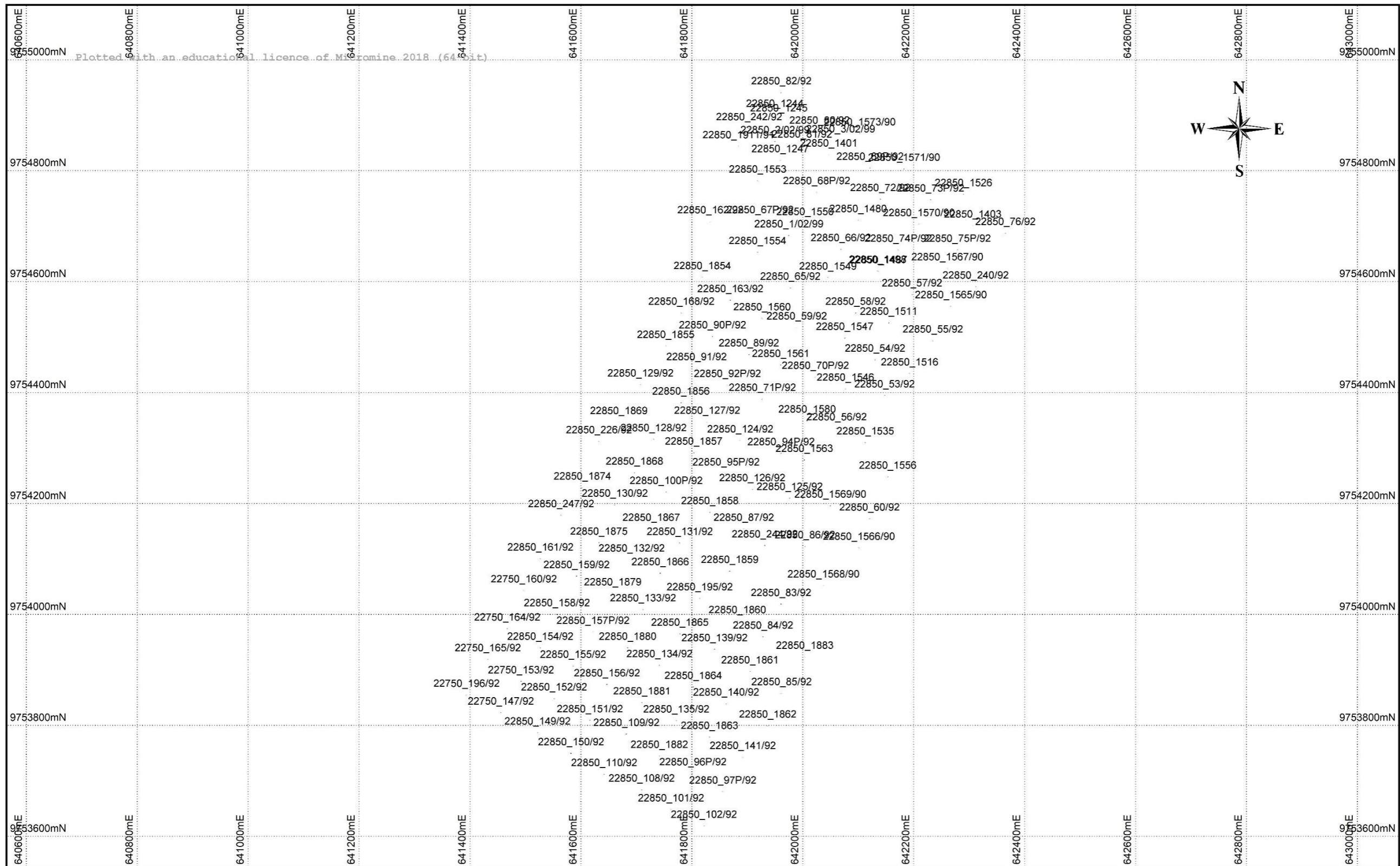
LAMPIRAN A DATA COLLAR

HOLE	X	Y	TLR (Meter)	TEBAL (Meter)	DL_KONG (Meter)	KONG	TDH (kg/m³)	RG_BOR
22750_147/92	641455.7	9753823	-1	17.7	-18.7	BTLP	2.038	KB.BINTANG
22750_153/92	641492.2	9753879	-1.1	17.6	-18.7	BTPS	1.109	KB.BINTANG
22750_160/92	641497.1	9754043	-1.3	18.4	-19.7	BTPS	0.157	KB.BINTANG
22750_164/92	641467.3	9753974	-1.2	17.5	-18.7	BTPS	1.989	KB.BINTANG
22750_165/92	641432.1	9753919	-1.1	17.3	-18.4	BTPS	1.697	KB.BINTANG
22750_196/92	641393.8	9753855	-1	16.2	-17.2	BTPS	0.286	KB.BINTANG
22850_1/02/99	641974.6	9754683	-1.7	21.9	-23.6	BTPS	0.807	KB.BINTANG
22850_2/02/99	641949.7	9754853	-2.2	18.7	-20.9	BTPS	0.3	KB.BINTANG
22850_3/02/99	642067.9	9754854	-2	21	-23	BTPS	0.11	KB.BINTANG
22850_53/92	642147.5	9754395	-2.3	22.4	-24.7	BTPS	0.746	KB.BINTANG
22850_54/92	642130.2	9754459	-2.5	22.4	-24.9	BTPS	0.742	KB.BINTANG
22850_55/92	642234.4	9754494	-2.6	25	-27.6	BTPS	0.247	KB.BINTANG
22850_56/92	642061	9754335	-2	21.9	-23.9	BTPS	1.142	KB.BINTANG
22850_57/92	642197	9754577	-2.6	24	-26.6	BTPS	0.605	KB.BINTANG
22850_58/92	642095.4	9754544	-2.5	23.2	-25.7	BTPS	0.738	KB.BINTANG
22850_59/92	641989.2	9754517	-2.3	21.8	-24.1	BTPS	0.163	KB.BINTANG
22850_60/92	642120.2	9754173	-2	23.2	-25.2	BTPS	0.529	KB.BINTANG
22850_65/92	641977.7	9754589	-2	22.3	-24.3	BTPS	0.61	KB.BINTANG
22850_66/92	642068.8	9754658	-2.4	21.9	-24.3	BTPS	0.488	KB.BINTANG
22850_67P/92	641923.1	9754709	-2	20.6	-22.6	BTPS	0.179	KB.BINTANG
22850_68P/92	642025.1	9754761	-2.6	20.5	-23.1	BTPS	0.212	KB.BINTANG
22850_69P/92	642121.3	9754805	-2.8	21.3	-24.1	BTPS	0.602	KB.BINTANG
22850_70P/92	642022.6	9754428	-2.2	21.1	-23.3	BTLP	0.246	KB.BINTANG
22850_71P/92	641927.2	9754388	-1.5	20.8	-22.3	BTPS	0.291	KB.BINTANG

LAMPIRAN B DATA ASSAY

Hole	From (Meter)	To (Meter)	Tebal (Meter)	Tdh_lap (kg/m³)	Lapisan	X	Y	RI
22750_147/92	0	1.2	1.2	0.013	PHALP	641455.7	9753823	-1.6
22750_147/92	1.2	2.8	1.6	0.041	PKAKRK	641455.7	9753823	-3
22750_147/92	2.8	4.8	2	0	LPLT	641455.7	9753823	-4.8
22750_147/92	4.8	5.5	0.7	0	LPLT	641455.7	9753823	-6.15
22750_147/92	5.5	6.2	0.7	0.014	LPPHA	641455.7	9753823	-6.85
22750_147/92	6.2	7.2	1	0	LPLT	641455.7	9753823	-7.7
22750_147/92	7.2	8.4	1.2	0.041	LPPHA	641455.7	9753823	-8.8
22750_147/92	8.4	9.2	0.8	0.034	PHALP	641455.7	9753823	-9.8
22750_147/92	9.2	11.2	2	0.024	PKAKRK	641455.7	9753823	-11.2
22750_147/92	11.2	11.6	0.4	0.038	PKAKRK	641455.7	9753823	-12.4
22750_147/92	11.6	12.2	0.6	0.192	PHALP	641455.7	9753823	-12.9
22750_147/92	12.2	13.3	1.1	0.1	PKAKRK	641455.7	9753823	-13.75
22750_147/92	13.3	14.5	1.2	0.024	LPPHA	641455.7	9753823	-14.9
22750_147/92	14.5	15.7	1.2	1.574	PKAKRK	641455.7	9753823	-16.1
22750_147/92	15.7	17.7	2	16.85	KRKPKA	641455.7	9753823	-17.7
22750_153/92	0	1.4	1.4	0.017	PHALP	641492.2	9753879	-1.8
22750_153/92	1.4	2.4	1	0.023	LPPHA	641492.2	9753879	-3
22750_153/92	2.4	3.8	1.4	0.006	PKAKRK	641492.2	9753879	-4.2
22750_153/92	3.8	5	1.2	0	LPLT	641492.2	9753879	-5.5
22750_153/92	5	5.4	0.4	0.123	LPPHA	641492.2	9753879	-6.3
22750_153/92	5.4	6	0.6	0.032	PKALP	641492.2	9753879	-6.8
22750_153/92	6	6.8	0.8	0	LPLT	641492.2	9753879	-7.5

LAMPIRAN PETALUBANGBOR



DEPARTEMEN TEKNIK PERTAMBANGAN
FAKULTAS TEKNIK
UNIVERSITAS HASANUDDIN
2020

DI GAMBAR OLEH:
MUHAMMAD SYAHRUL RAMADHAN
DIPERIKSA OLEH:
ASRAN ILYAS, ST., MT., Ph.D
DR. IRZAL NUR. MT

Scale
1 : 6600

Plot Date
07-Sep-2020

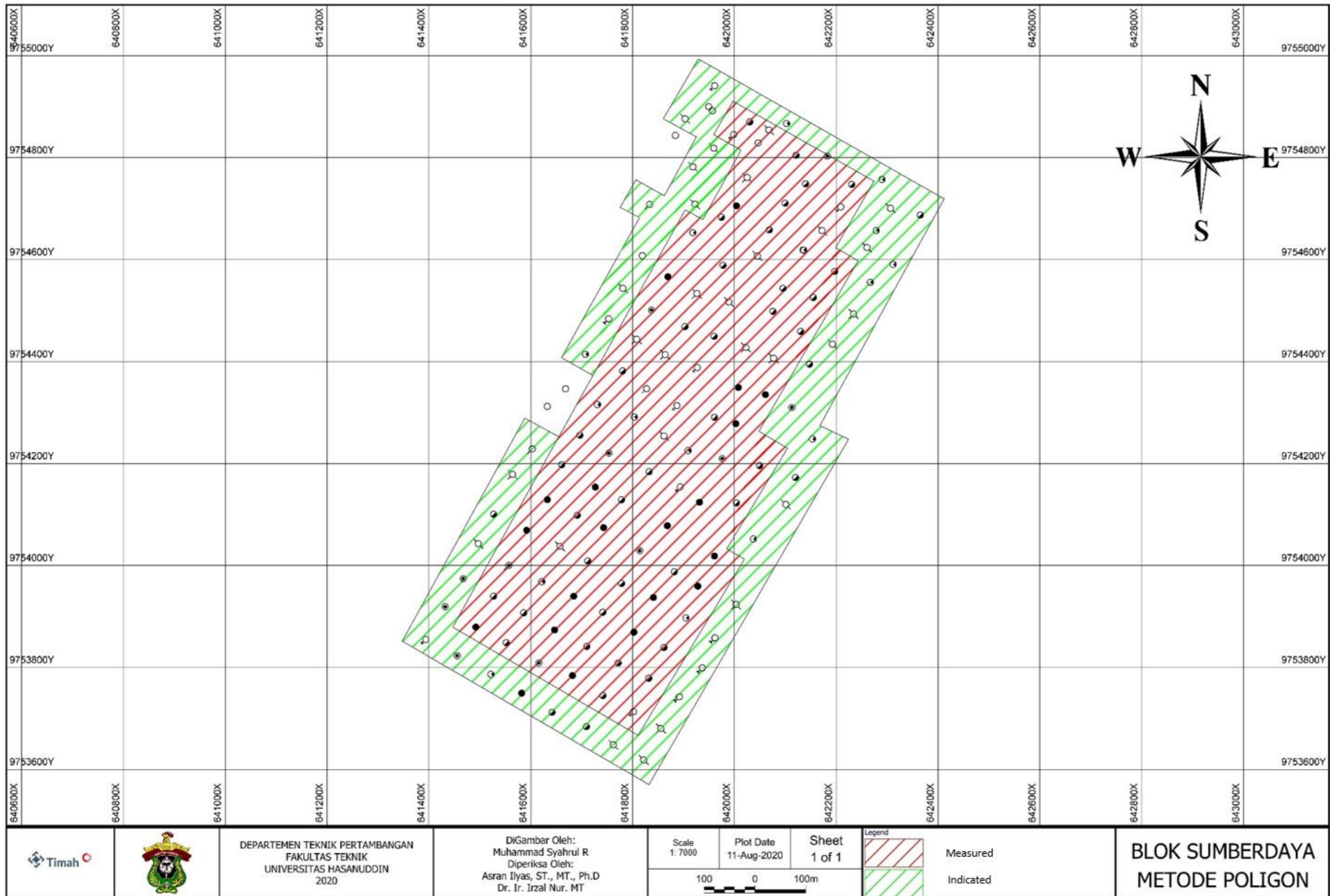
Sheet
1 of 1



○	○	○	○
○	○	○	○
○	○	○	○
○	○	○	○

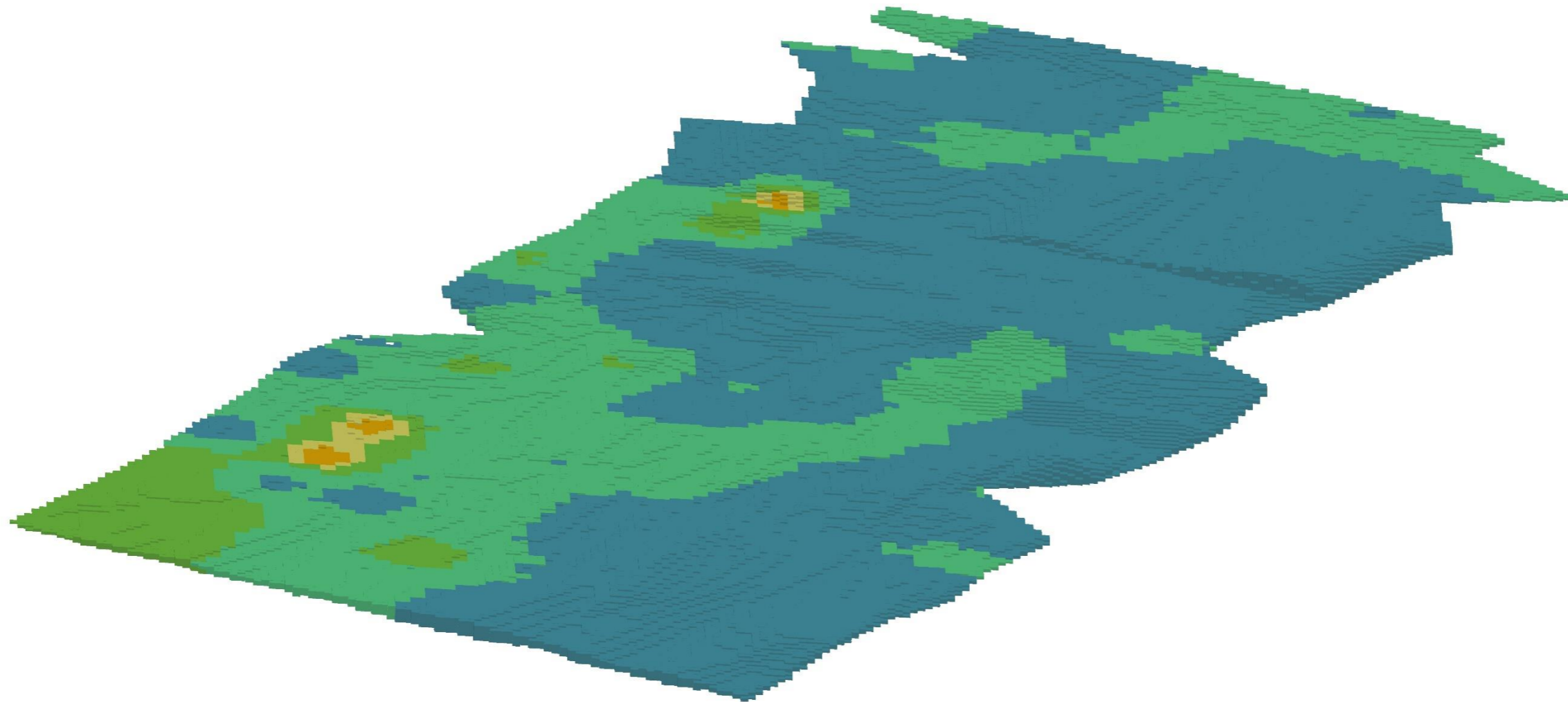
LUBANG BOR



LAMPIRAN BLOK SUMBERDAYA POLIGON



LAMPIRAN E BLOK MODEL SUMBERDAYA INVERSE
DISTANCE WEIGHTING

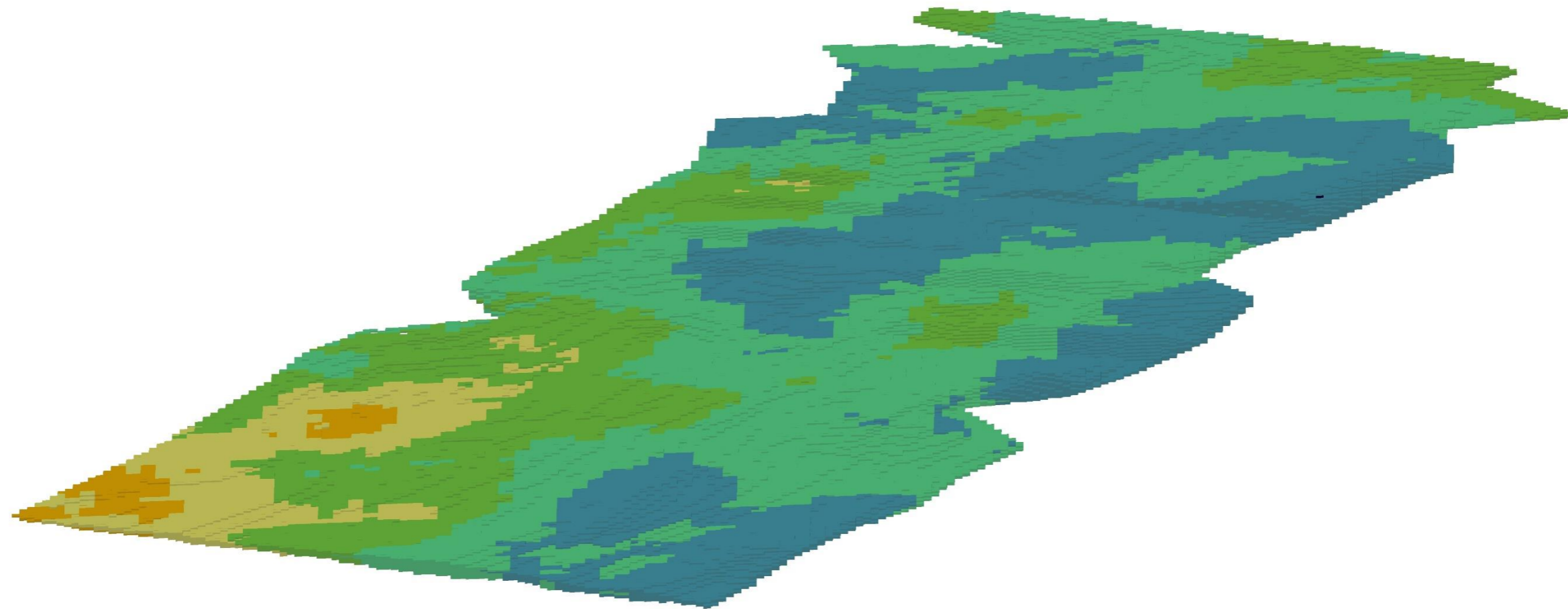
Plotted with an educational licence of Micromine 2018 (64-bit)





		DEPARTEMEN TEKNIK PERTAMBANGAN FAKULTAS TEKNIK UNIVERSITAS HASANUDDIN 2020	DI GAMBAR OLEH: MUHAMMAD SYAHRUL RAMADHAN DIPERIKSA OLEH: ASRAN ILYAS, ST., MT., Ph.D. Dr. Ir. IRZAL NUR, MT.	Scale 1:3000	Plot Date 07-sep-2020	Sheet 1 of 1	Legend <table border="0"> <tr> <td> < 0.02</td> <td> 3.90 to 5.83</td> <td> 7.77 to 9.7</td> </tr> <tr> <td> 0.02 to 1.96</td> <td> 5.83 to 7.77</td> <td> >= 9.71</td> </tr> <tr> <td> 1.96 to 3.90</td> <td></td> <td></td> </tr> </table>	 < 0.02	 3.90 to 5.83	 7.77 to 9.7	 0.02 to 1.96	 5.83 to 7.77	 >= 9.71	 1.96 to 3.90			BLOK MODEL KAKSA INVERSE DISTANCE WEIGHTING
 < 0.02	 3.90 to 5.83	 7.77 to 9.7															
 0.02 to 1.96	 5.83 to 7.77	 >= 9.71															
 1.96 to 3.90																	

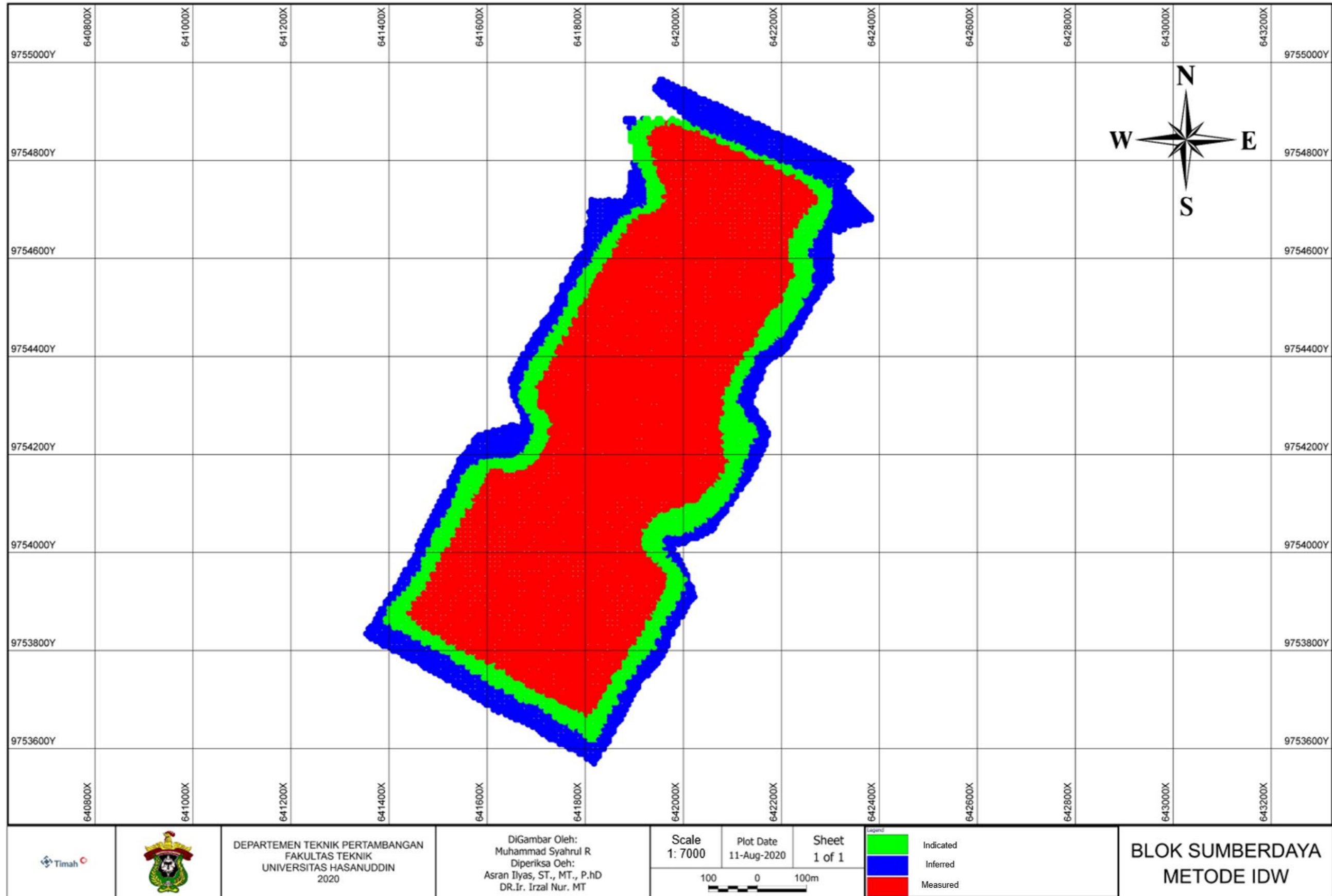
LAMPIRAN BLOK MODEL ORDINARY KRIGING

Plotted with an educational licence of Micromine 2018 (64-bit)



		<p>DEPARTEMEN TEKNIK PERTAMBANGAN FAKULTAS TEKNIK UNIVERSITAS HASANUDDIN 2020</p>	<p>DI GAMBAR OLEH: MUHAMMAD SYAHRUL RAMADHAN DIPERIKSA OLEH: ASRAN ILYAS, ST., MT., Ph.D. Dr. Ir. IRZAL NUR, MT.</p>	<p>Scale 1:3000</p>	<p>Plot Date 07-sep-2020</p>	<p>Sheet 1 of 1</p>	<p>Legend</p> <table border="0"> <tr> <td>■ < 0.07</td> <td>■ 2.29 to 3.40</td> <td>■ 4.51 to 5.6</td> </tr> <tr> <td>■ 0.07 to 1.18</td> <td>■ 3.40 to 4.51</td> <td>■ >= 5.63</td> </tr> <tr> <td>■ 1.18 to 2.29</td> <td></td> <td></td> </tr> </table>	■ < 0.07	■ 2.29 to 3.40	■ 4.51 to 5.6	■ 0.07 to 1.18	■ 3.40 to 4.51	■ >= 5.63	■ 1.18 to 2.29			<p>BLOK MODEL KAKSA ORDINARY KRIGING</p>
■ < 0.07	■ 2.29 to 3.40	■ 4.51 to 5.6															
■ 0.07 to 1.18	■ 3.40 to 4.51	■ >= 5.63															
■ 1.18 to 2.29																	

LAMPIRANG BLOK SUMBERDAYA IDW



LAMPIRAN H BLOK SUMBERDAYA
ORDINARY KRIGING

