

DAFTAR LAMPIRAN

Lampiran 1 Hasil Pembebanan Tiang Statis di Lapangan

Lampiran 2 Hasil *Output* Simulasi Pembebanan Tiang Statis

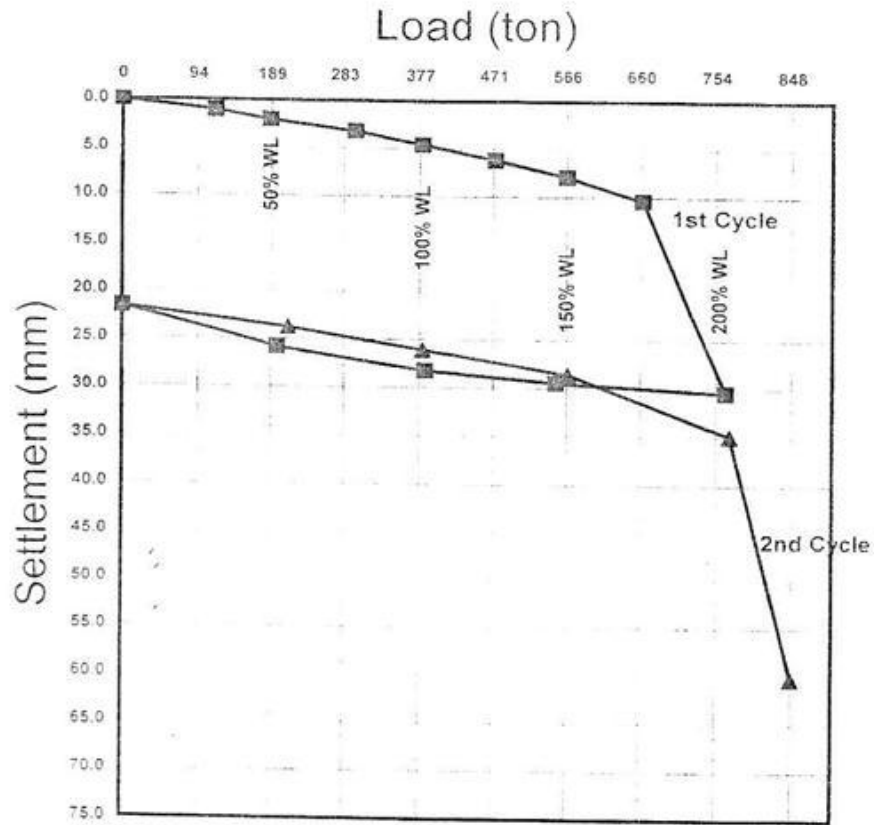
LAMPIRAN I

HASIL TES PEMBEBANAN TIANG STATIS DI LAPANGAN

2nd Loading Cycle (Max Test Load = 867 tons or 230% WL):

<u>Pile Depth bgl</u>	<u>Soil Description</u>	<u>Average SPT-N</u>	<u>Mobilised Avg Unit Skin Friction</u>	<u>K_s</u>
0 – 6.0m	Loose Sand	11	Debonded	-
6.0 – 12.0m	Loose Sand & Soft Marine Clay	5	173.1 kPa	34.6
12.0 – 18.0m	Soft Marine Clay	2	34.5 kPa	17.3
18.0 – 24.0m	Soft Marine Clay & Very Stiff Silty CLay	5	98.1 kPa	19.6
24.0 – 30.5m	Soft Marine Clay & Very Stiff Silty Clay	14	50.2 kPa	3.6
30.5 – 43.5m	Very Stiff Silty Clay Hard Clayey Silt	32	33.7 kPa	1.1
43.5m (Toe)	Hard Clayey SILT	47	<u>Mobilised Unit End Bearing</u> 4,038 kPa	<u>K_b</u> 2.1

ULTIMATE LOAD TEST NO. 2
 (UTP#2, 800mm Dia., WL: 377t)
 Load-Settlement Graph
 Dial Gauges Readings



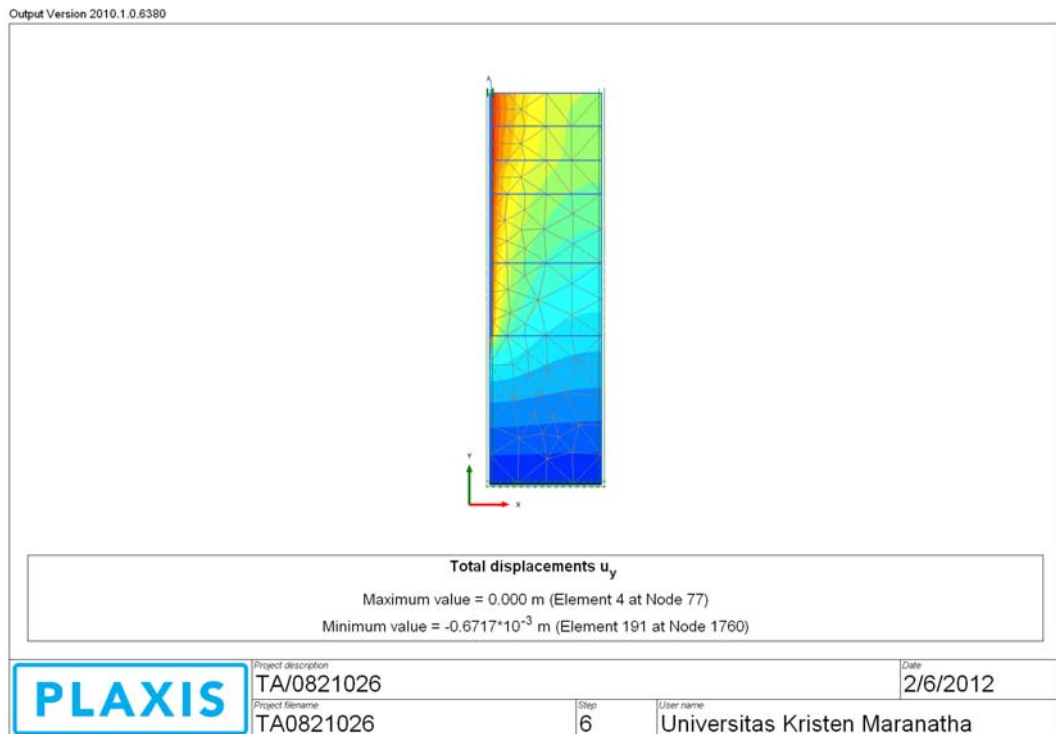
Gambar L1.1 Hasil Pembebanan Tiang Statis di Lapangan

LAMPIRAN II

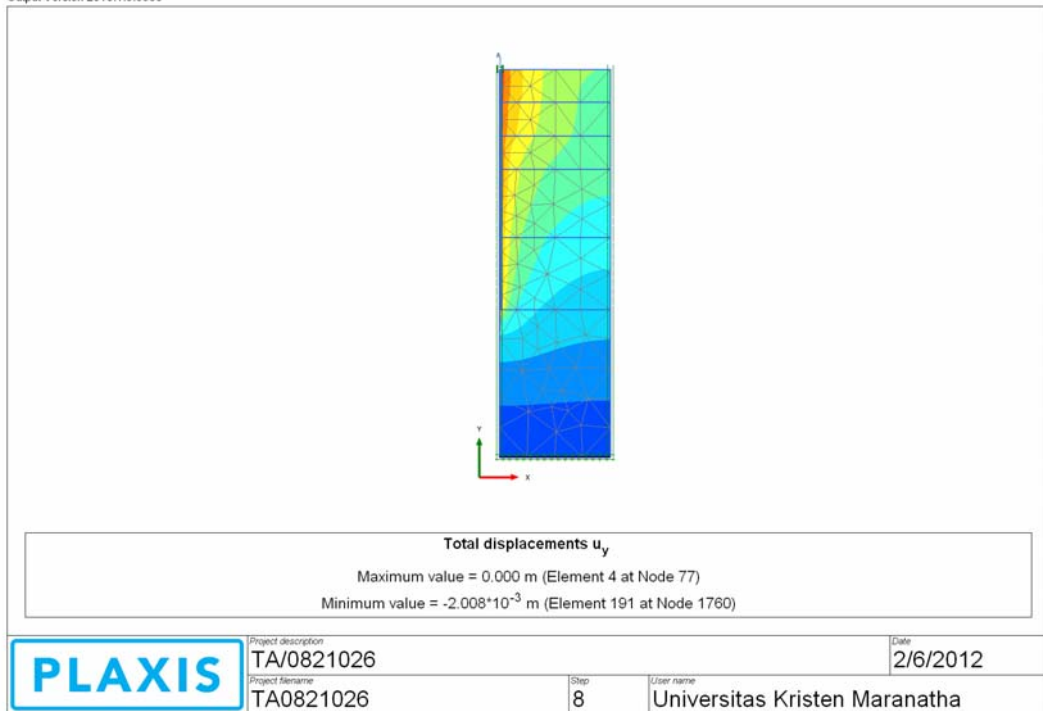
HASIL *OUTPUT* SIMULASI

PEMBEBANAN TIANG STATIS

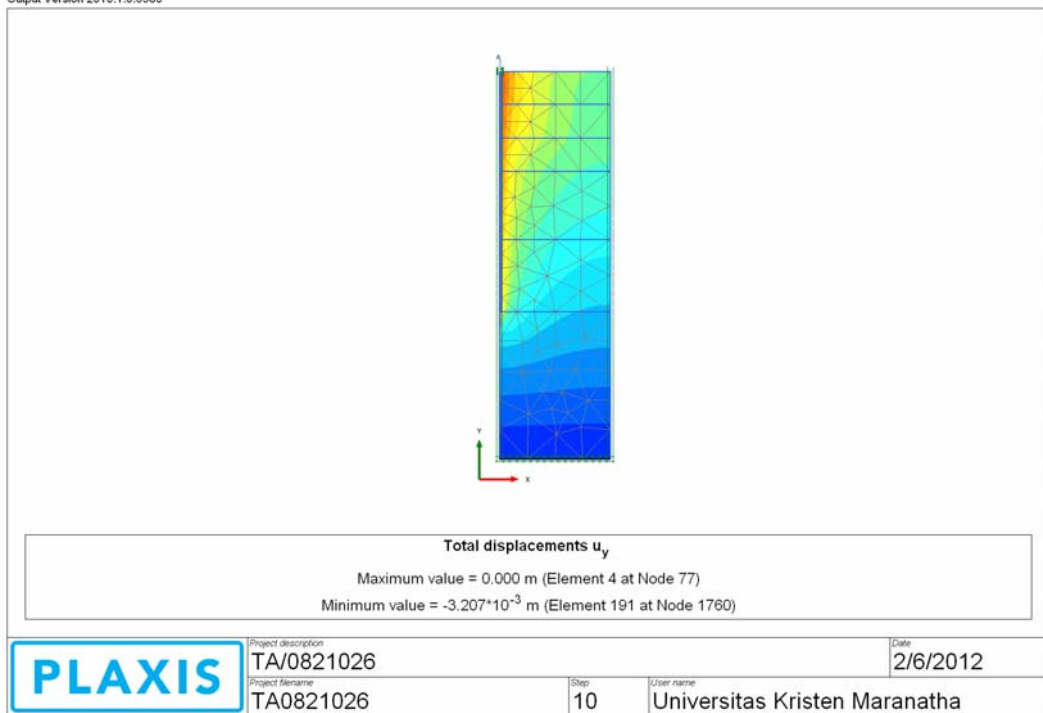
Berikut merupakan hasil *output* simulasi pembebanan tiang statis dengan menggunakan parameter tanah *Mohr-Coulomb*.



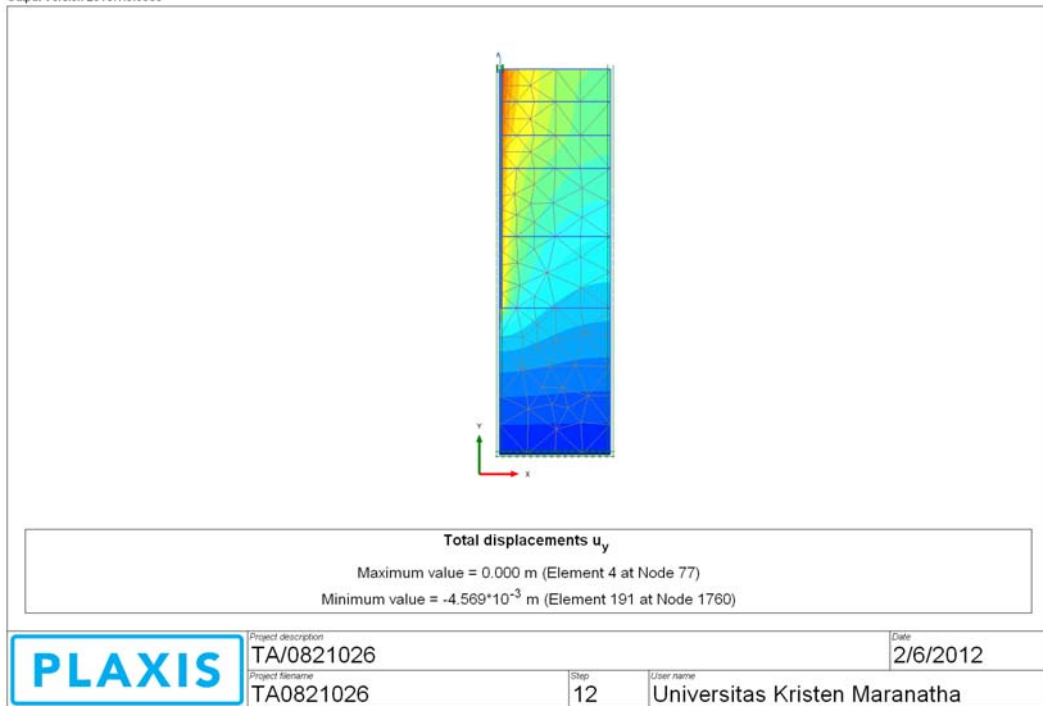
Gambar L2.1 Hasil *Output* Pembebanan Tiang Statis 0 ton



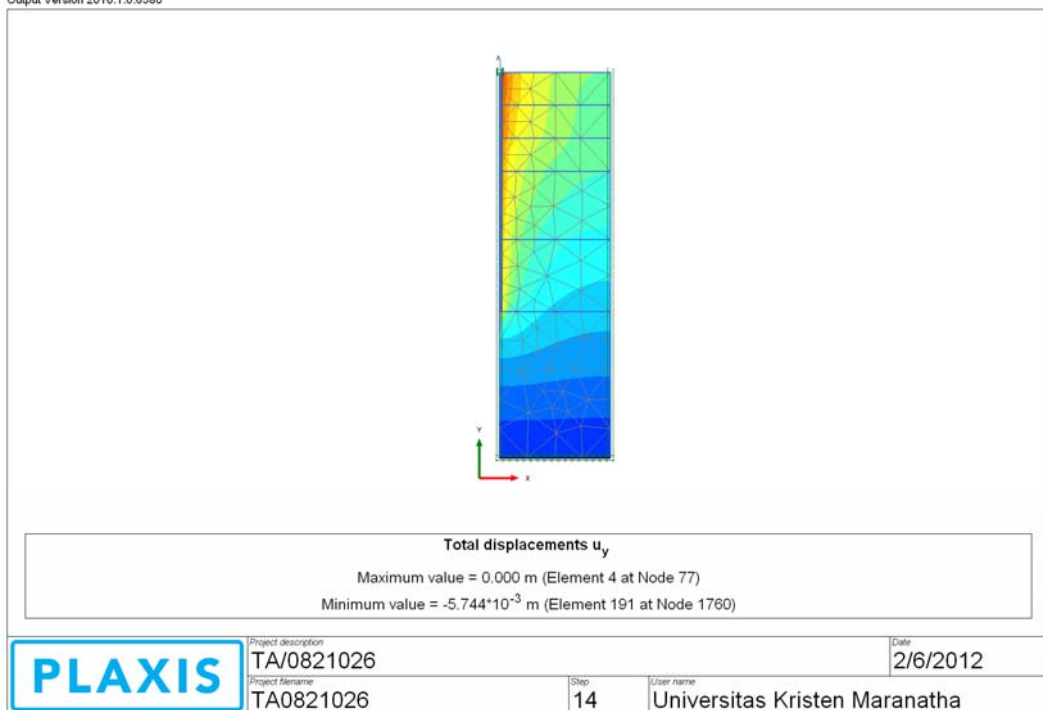
Gambar L2.2 Hasil *Output* Pembebanan Tiang Statis 100 ton



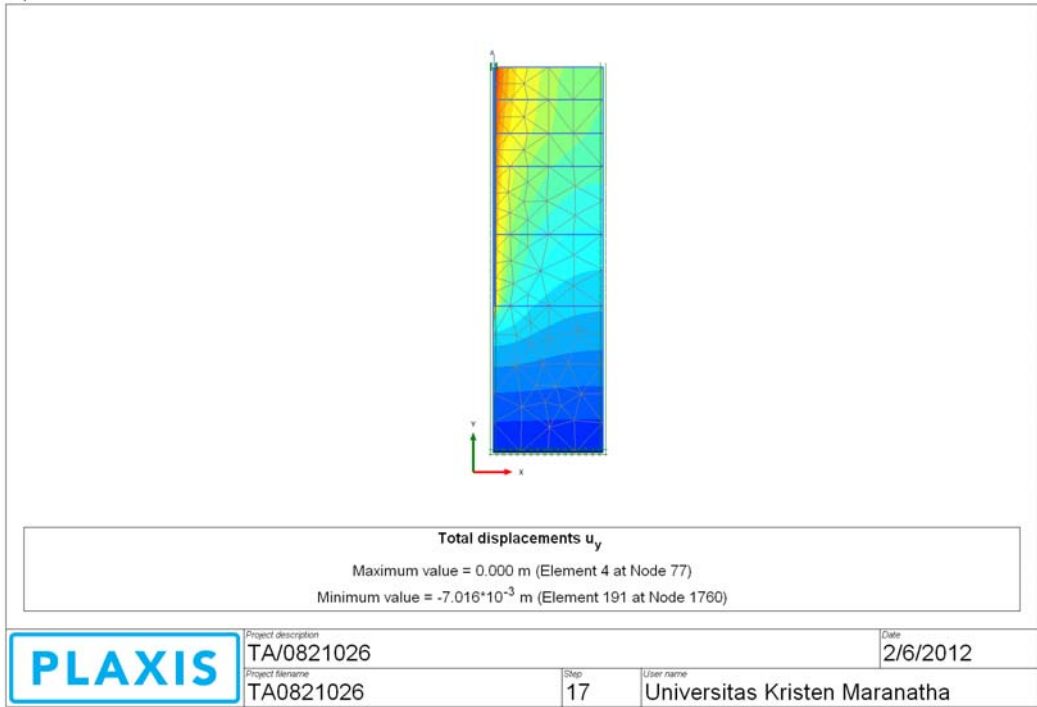
Gambar L2.3 Hasil *Output* Pembebanan Tiang Statis 189 ton



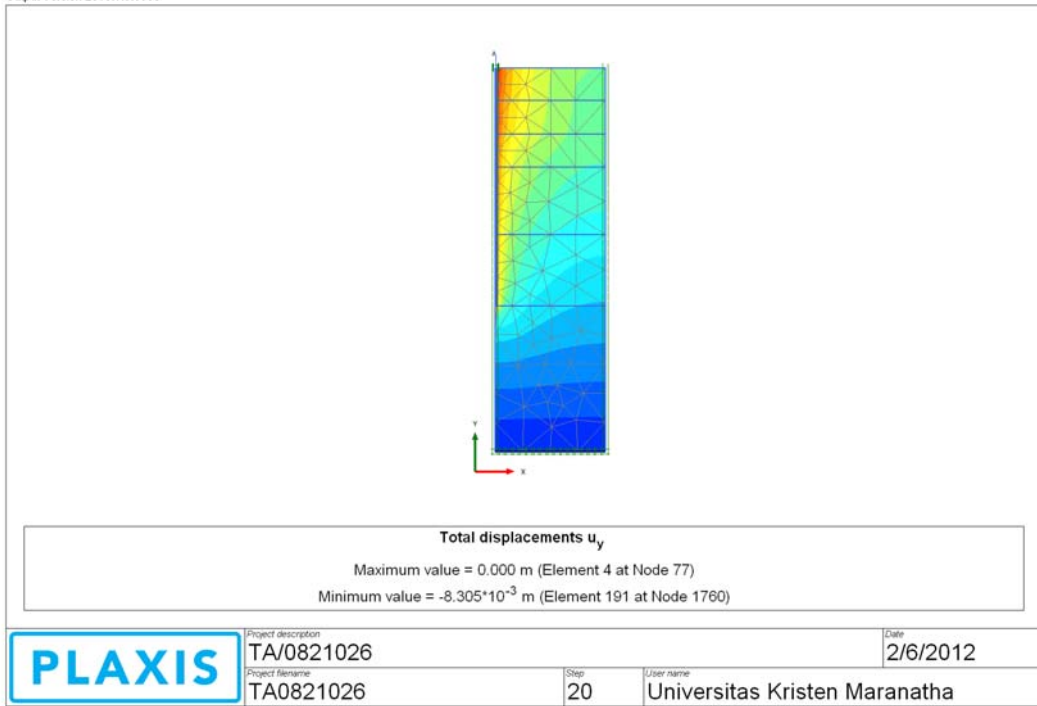
Gambar L2.4 Hasil *Output* Pembebanan Tiang Statis 290 ton



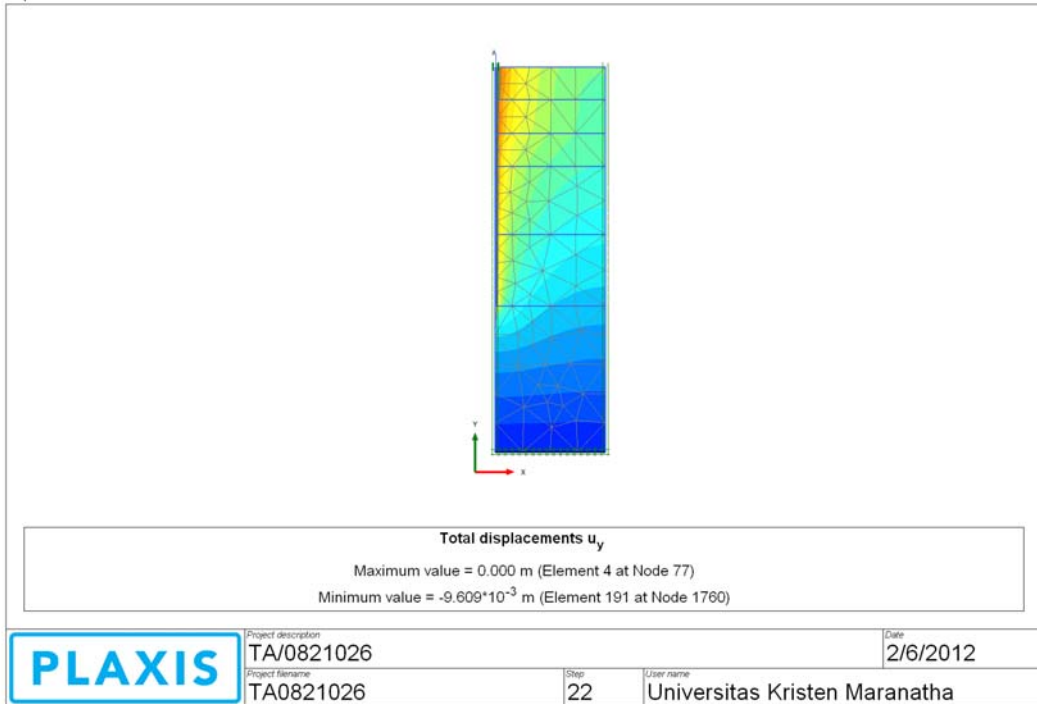
Gambar L2.5 Hasil *Output* Pembebanan Tiang Statis 377 ton



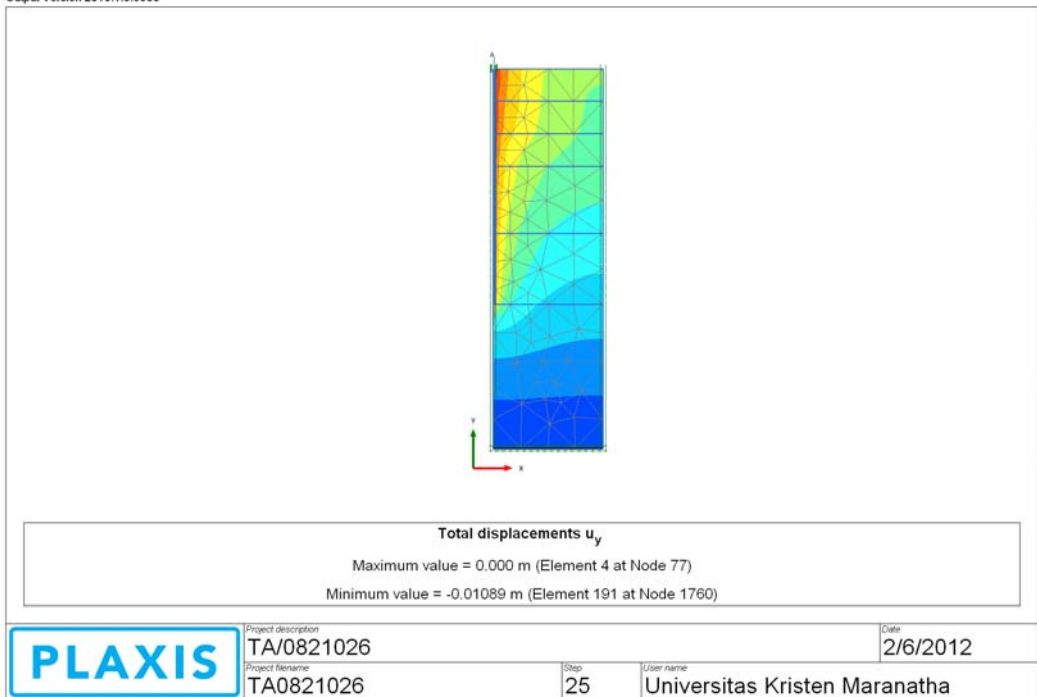
Gambar L2.6 Hasil *Output* Pembebanan Tiang Statis 471 ton



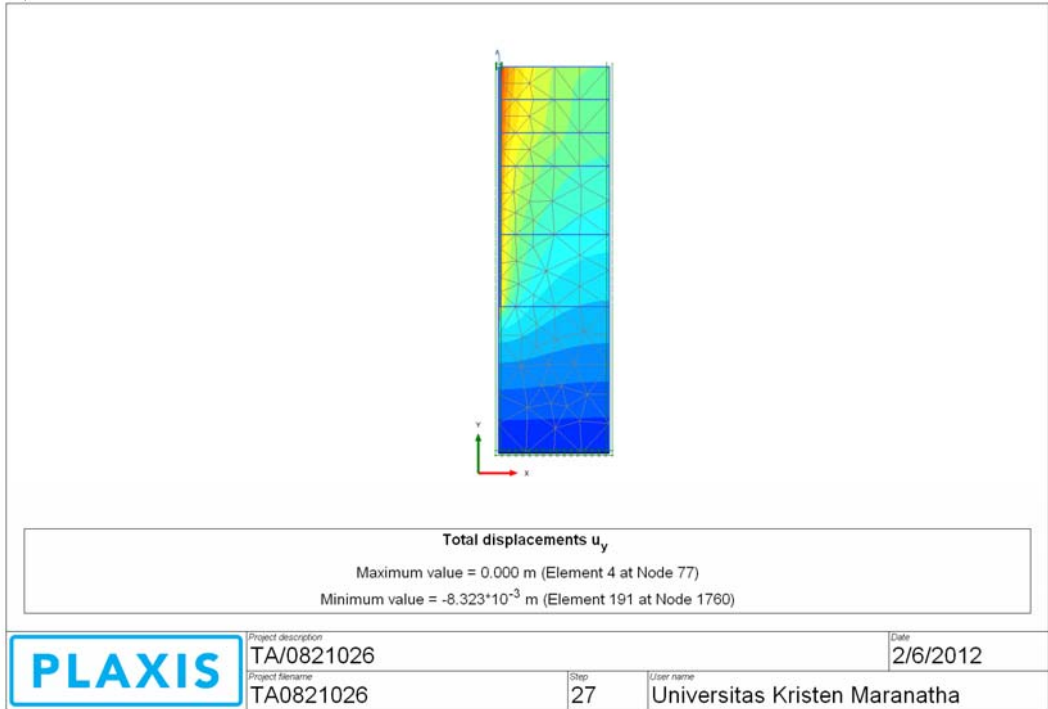
Gambar L2.7 Hasil *Output* Pembebanan Tiang Statis 566 ton



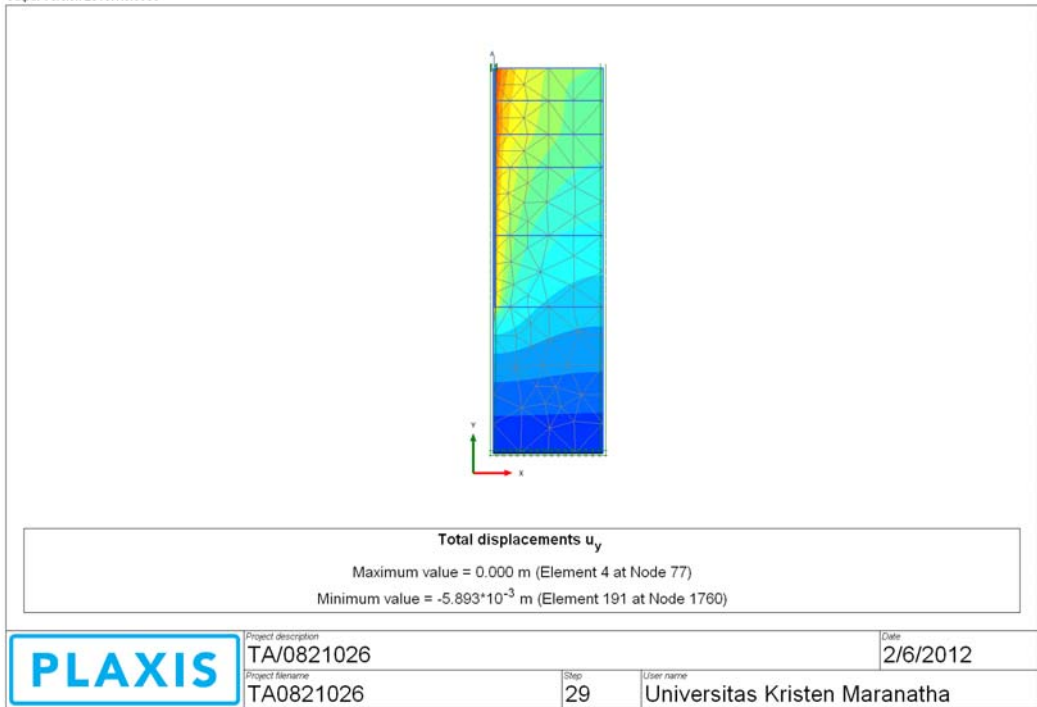
Gambar L2.8 Hasil *Output* Pembebanan Tiang Statis 660 ton



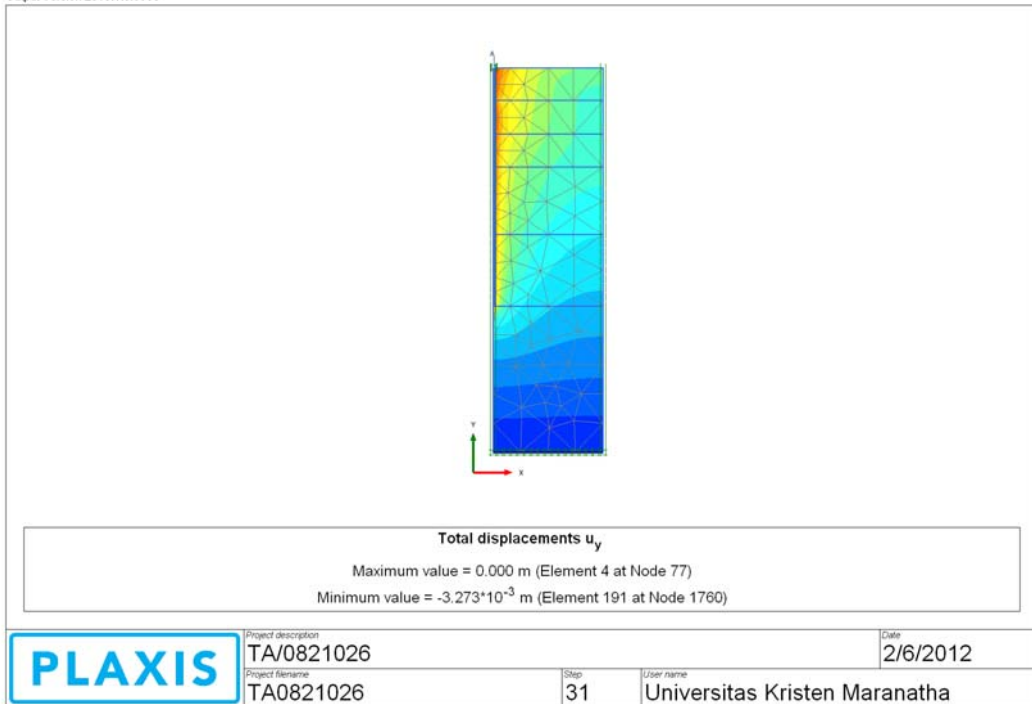
Gambar L2.9 Hasil *Output* Pembebanan Tiang Statis 754 ton



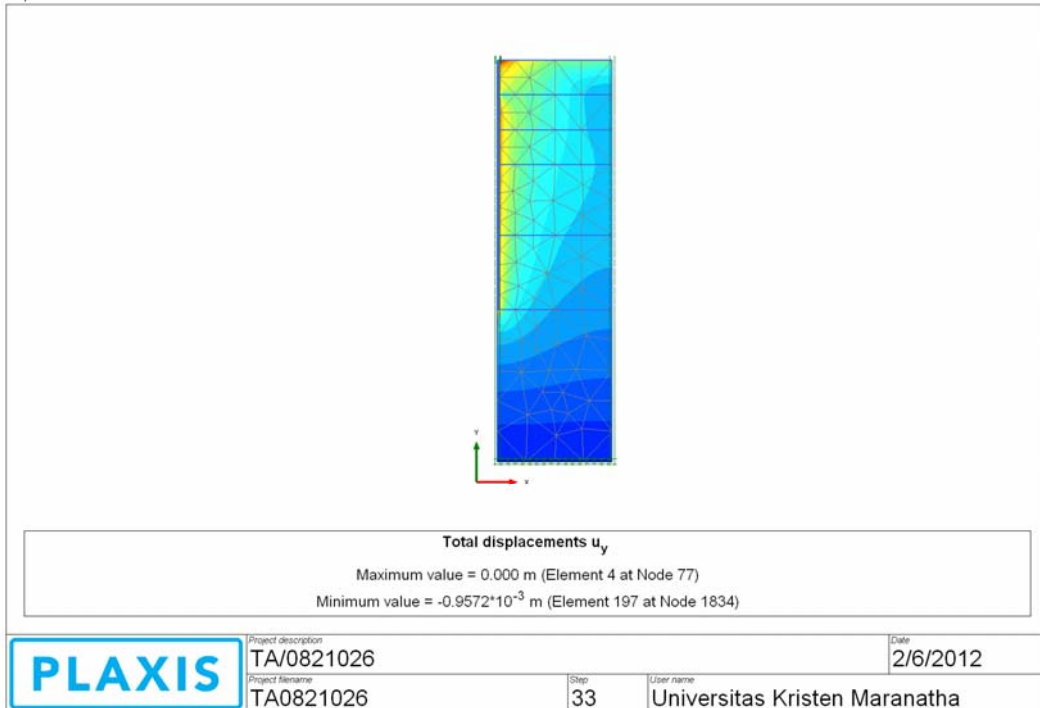
Gambar L2.10 Hasil *Output* Pembebanan Tiang Statis 560 ton



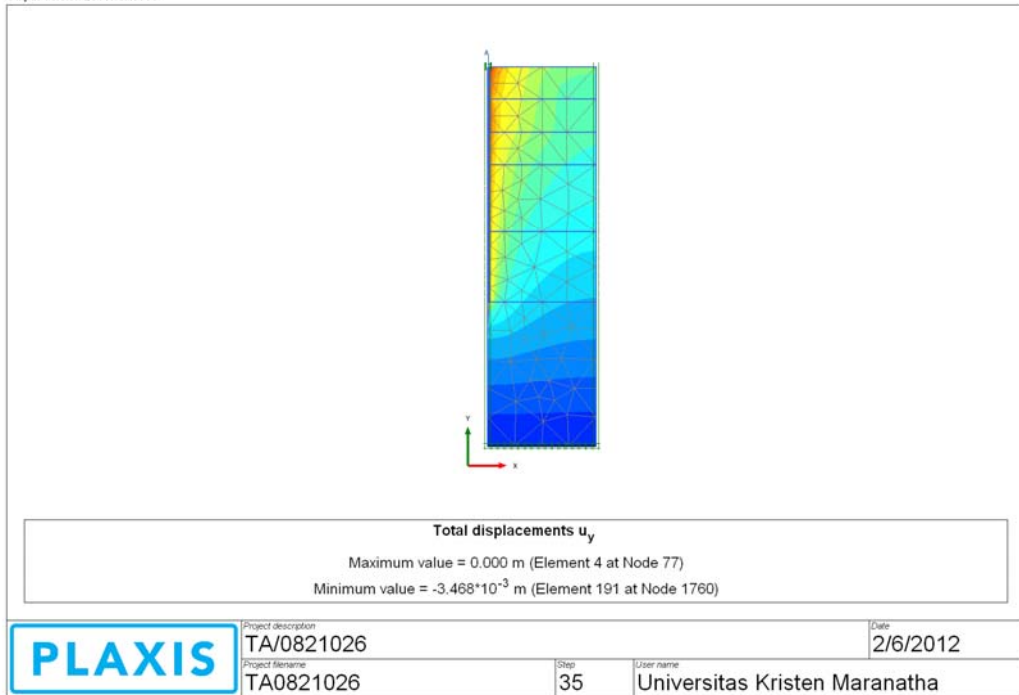
Gambar L2.11 Hasil *Output* Pembebanan Tiang Statis 377 ton



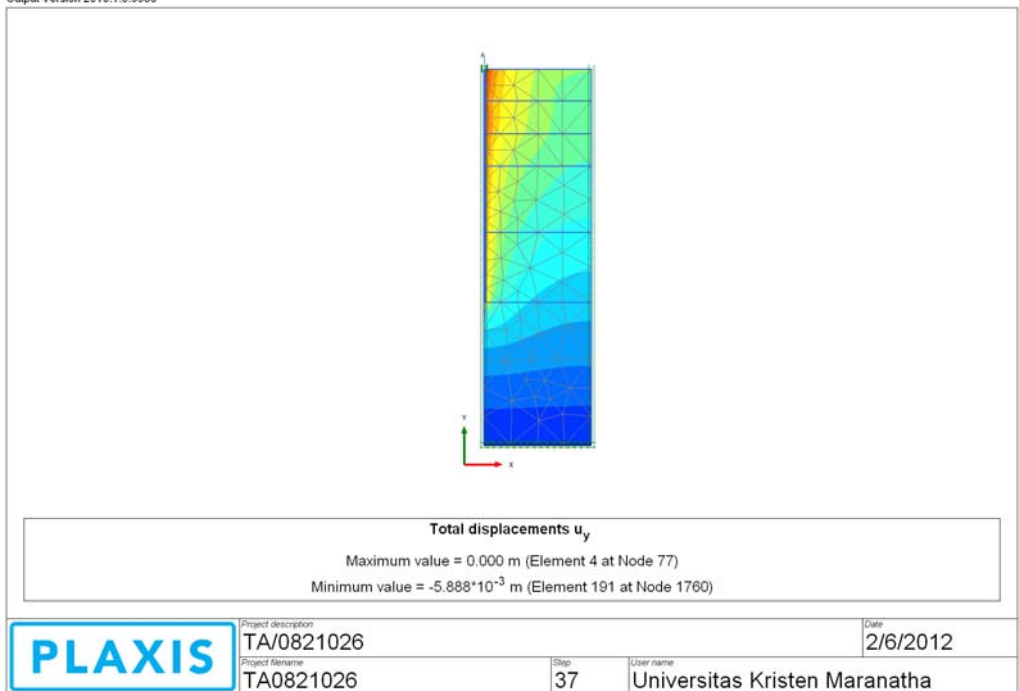
Gambar L2.12 Hasil *Output* Pembebanan Tiang Statis 180 ton



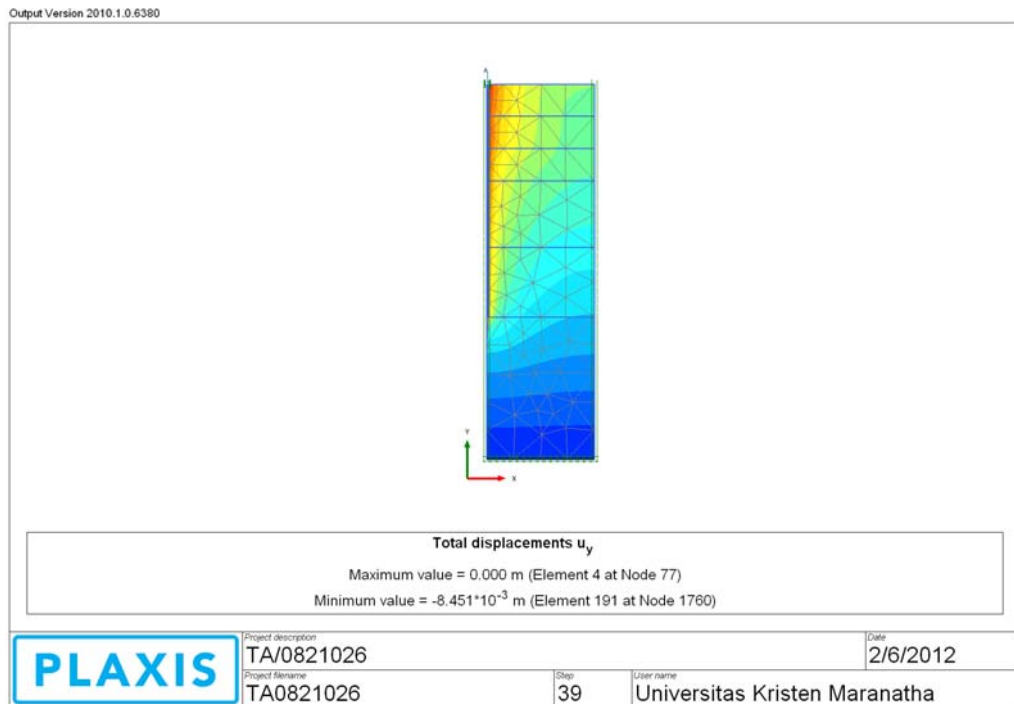
Gambar L2.13 Hasil *Output* Pembebanan Tiang Statis 0 ton



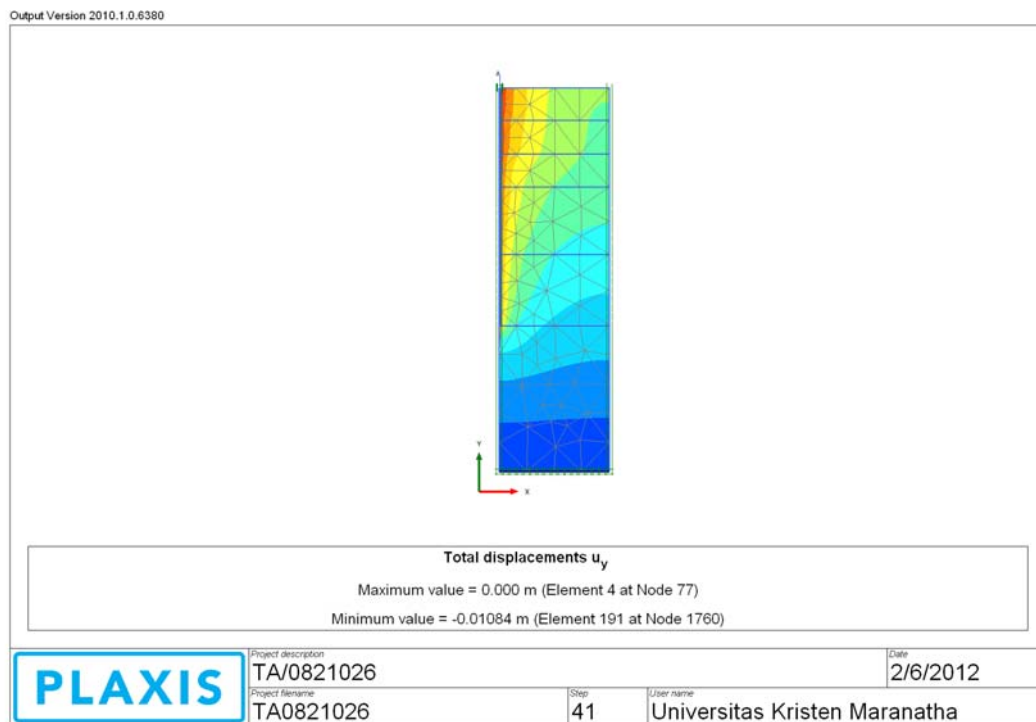
Gambar L2.14 Hasil *Output* Pembebanan Tiang Statis 195 ton



Gambar L2.15 Hasil *Output* Pembebanan Tiang Statis 377 ton

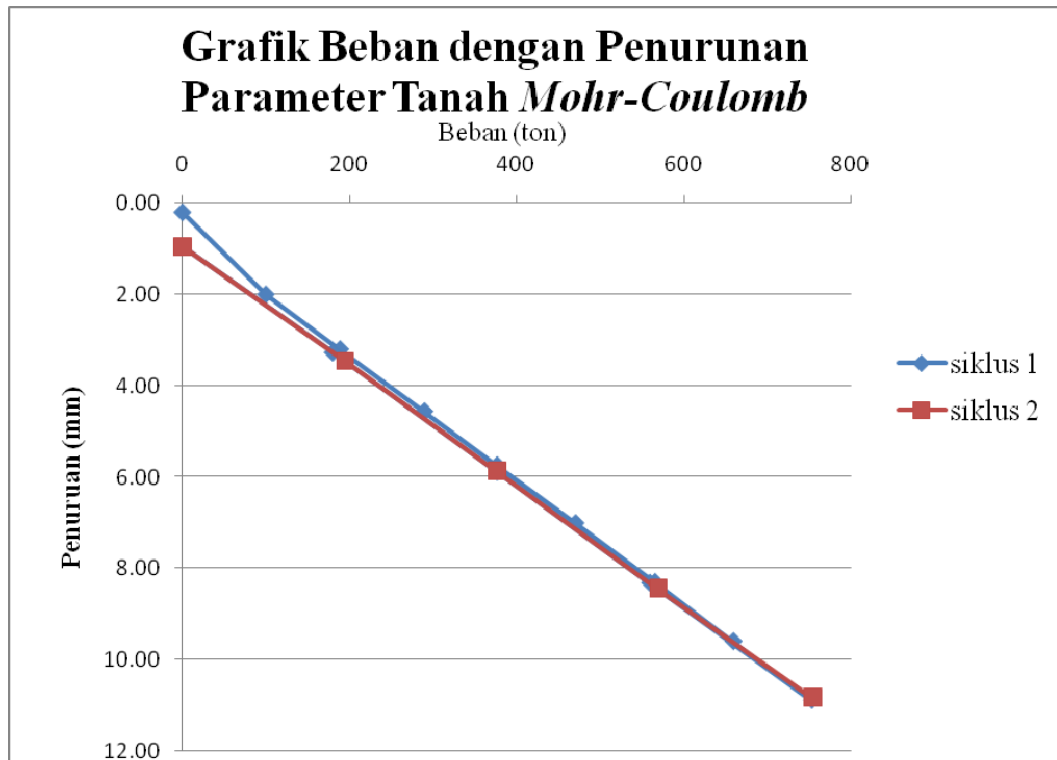


Gambar L2.16 Hasil *Output* Pembebanan Tiang Statis 570 ton



Gambar L2.17 Hasil *Output* Pembebanan Tiang Statis 755 ton

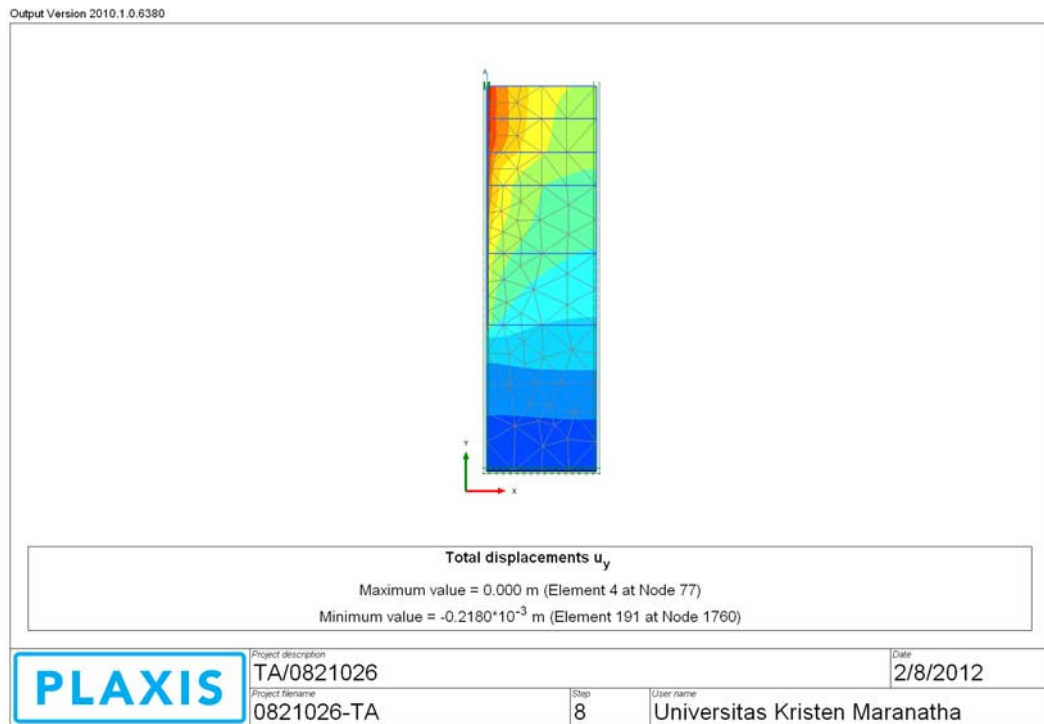
Grafik hubungan penurunan dengan beban parameter tanah *Mohr-Coulomb* dapat dilihat pada gambar L2.18 dibawah ini.



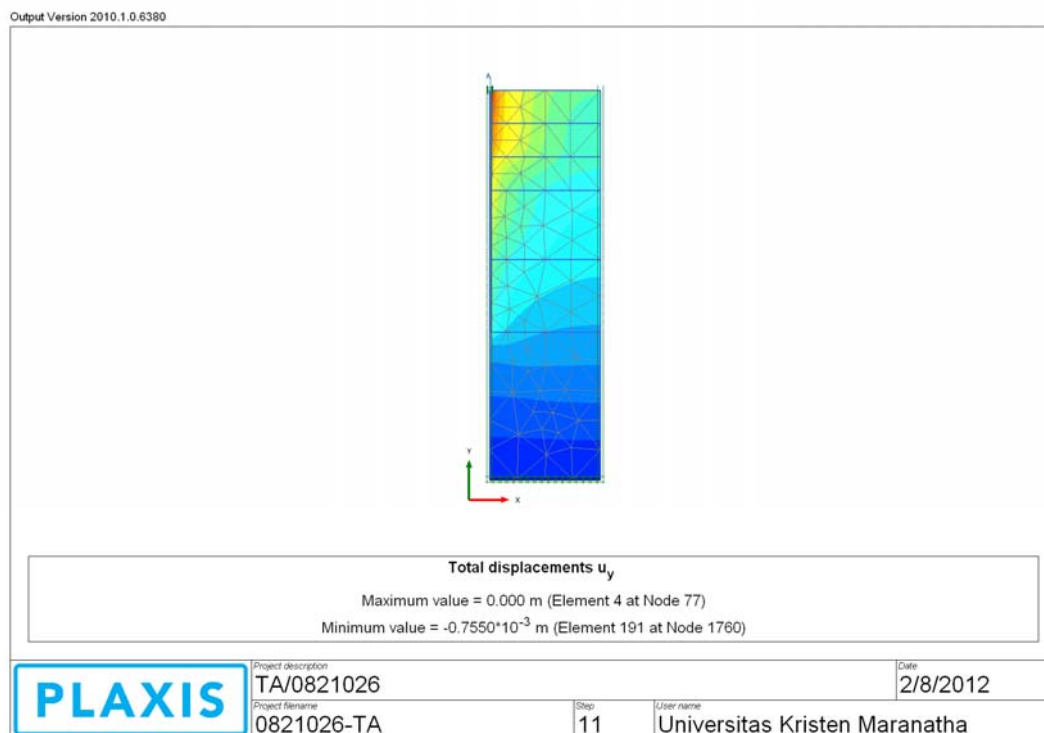
**Gambar L2.18 Grafik Penurunan dengan Beban
Parameter Tanah *Mohr-Coulomb***

Hasil grafik yang cenderung kembali lagi ke posisi awal, menandakan bahwa tanah masih dalam kondisi elastis.

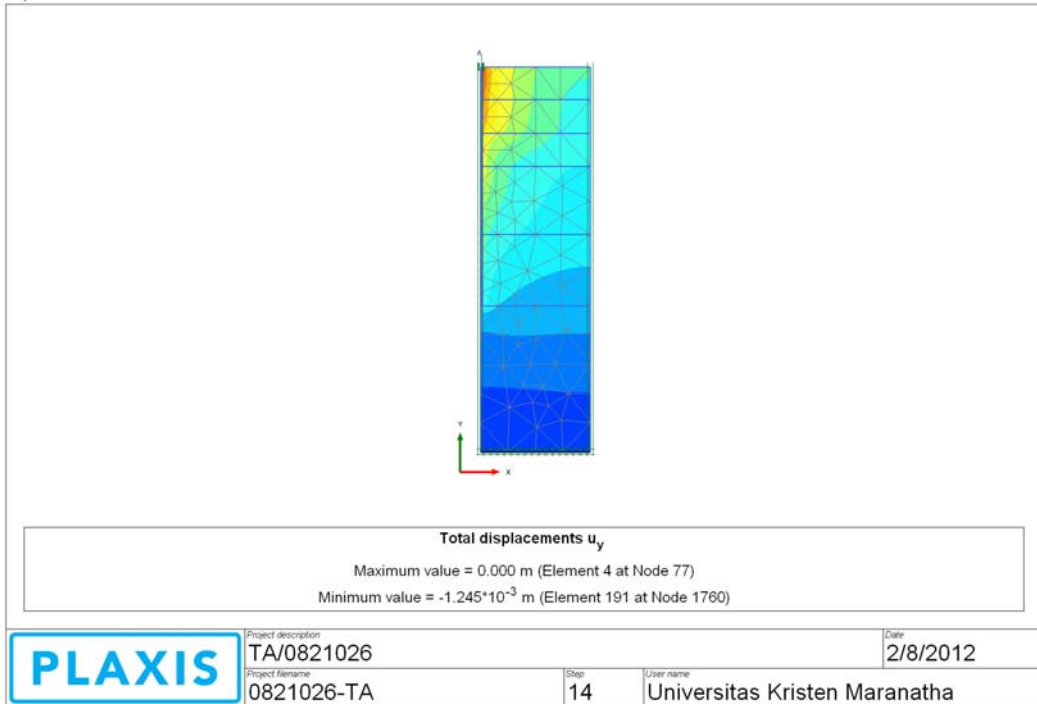
Berikut merupakan hasil *output* simulasi pembebanan tiang statis dengan menggunakan parameter tanah *Hardening Soil Model*.



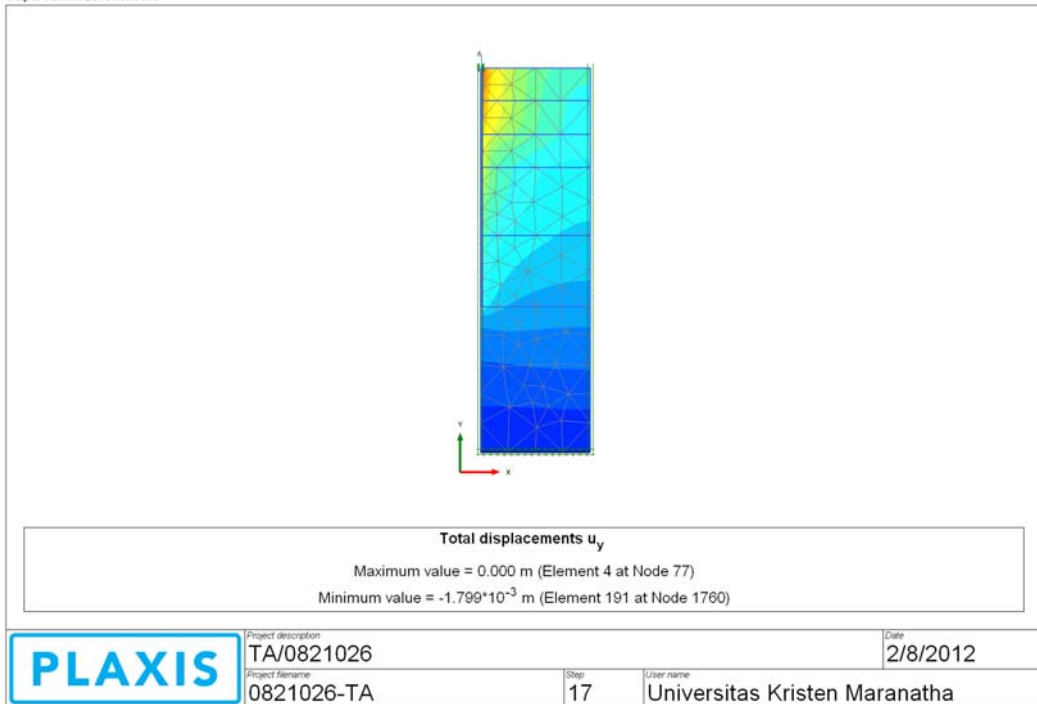
Gambar L2.19 Hasil *Output* Pembebanan Tiang Statis 0 ton



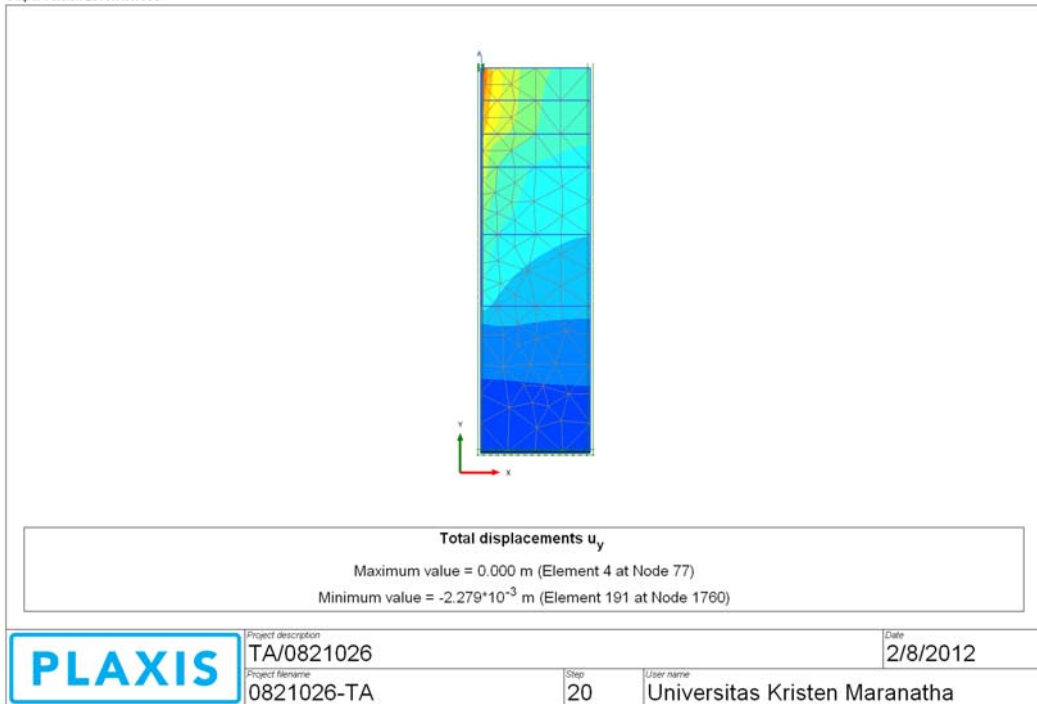
Gambar L2.20 Hasil *Output* Pembebanan Tiang Statis 100 ton



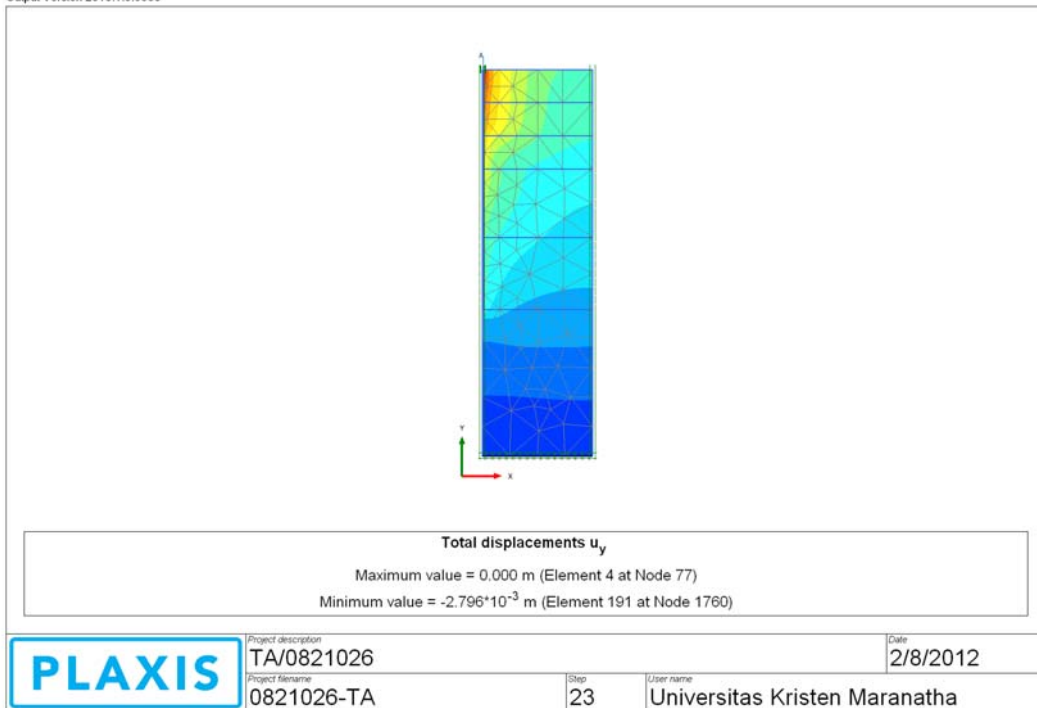
Gambar L2.21 Hasil *Output* Pembebanan Tiang Statis 189 ton



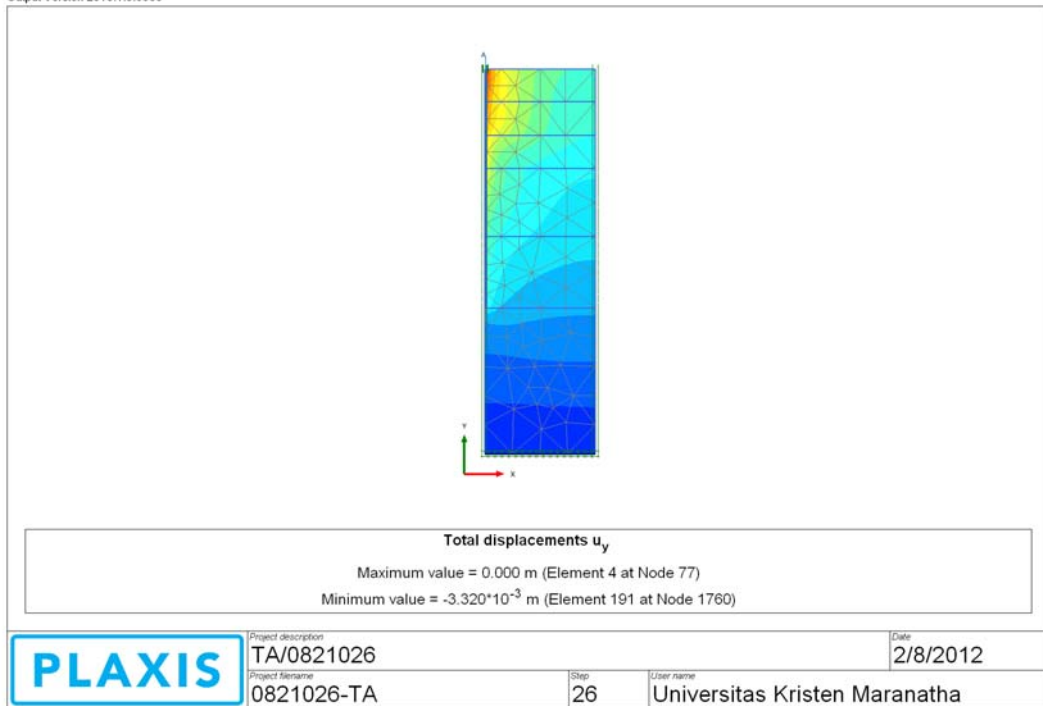
Gambar L2.22 Hasil *Output* Pembebanan Tiang Statis 290 ton



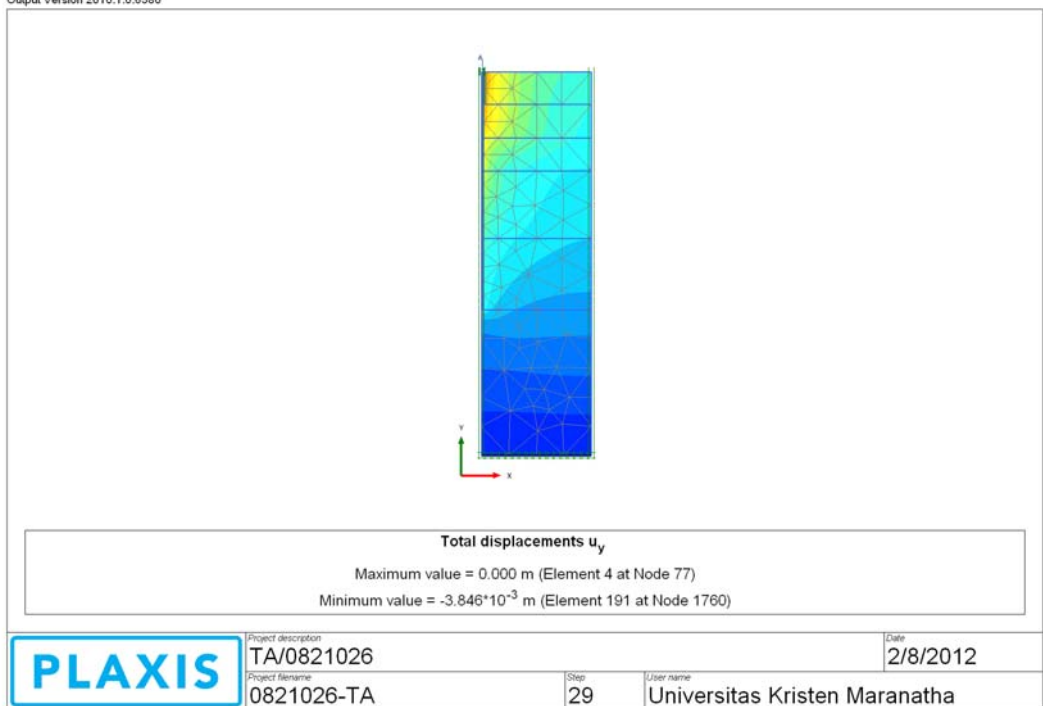
Gambar L2.23 Hasil *Output* Pembebanan Tiang Statis 377 ton



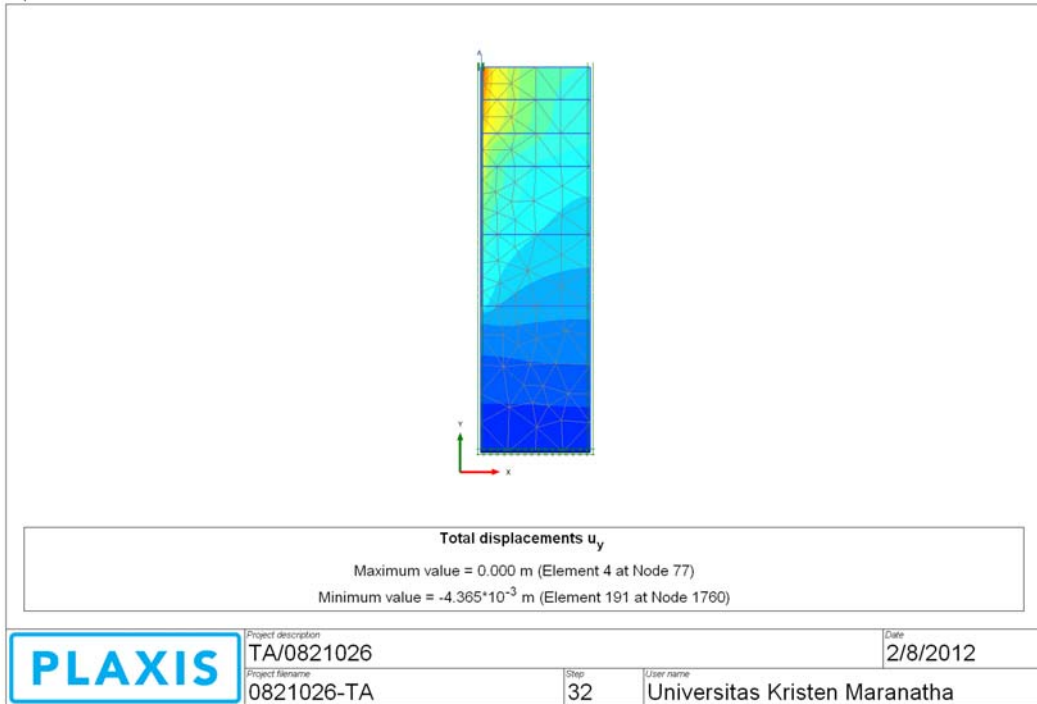
Gambar L2.24 Hasil *Output* Pembebanan Tiang Statis 471 ton



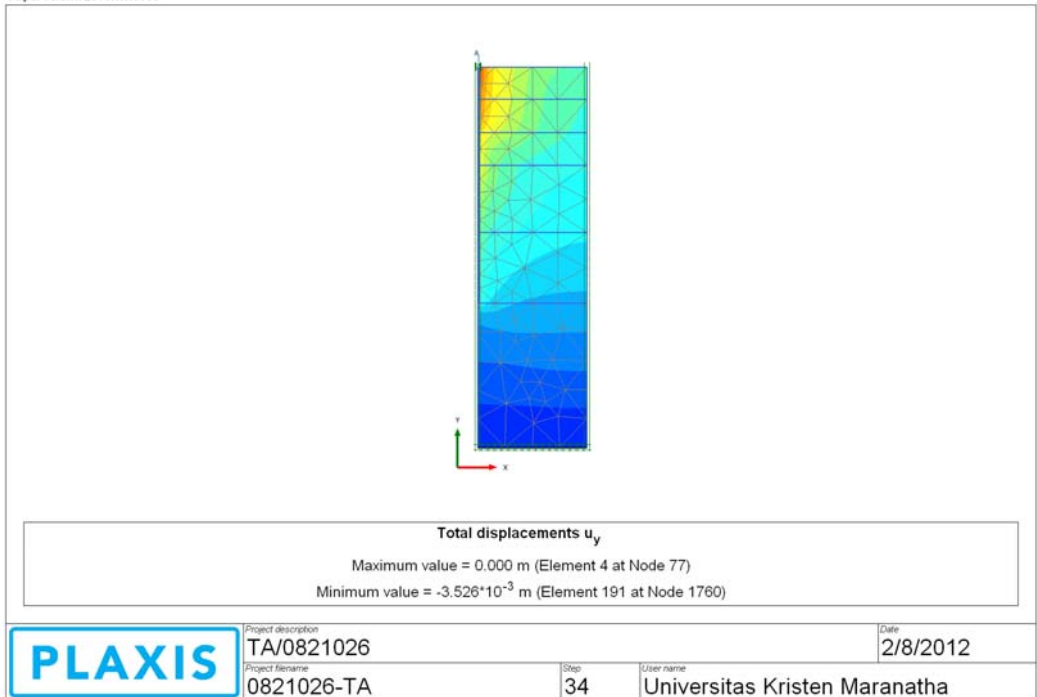
Gambar L2.25 Hasil *Output* Pembebanan Tiang Statis 566 ton



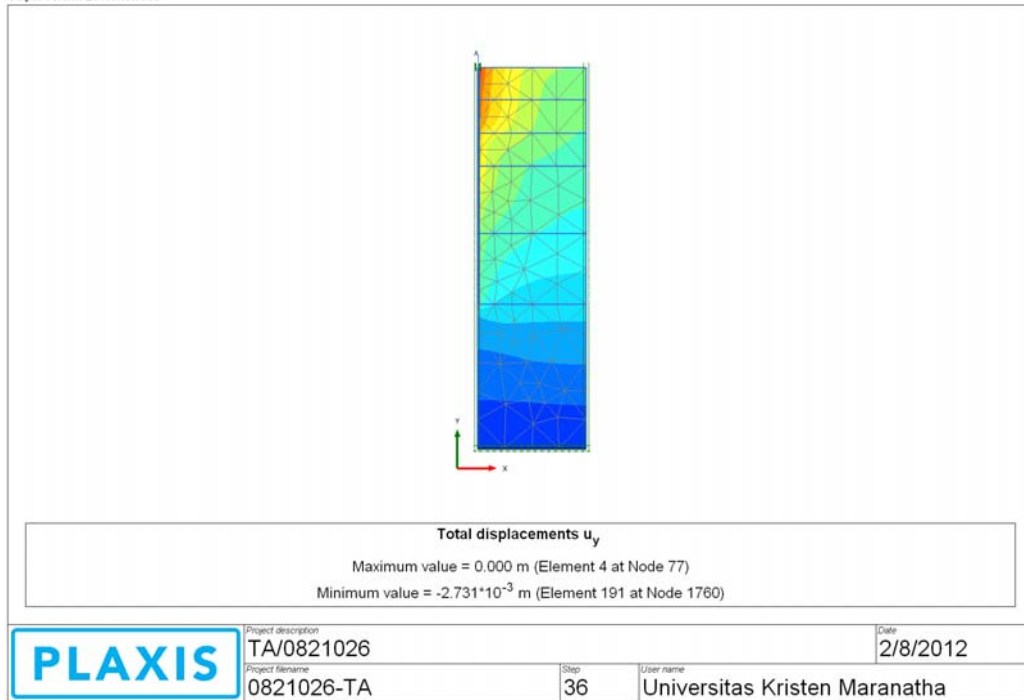
Gambar L2.26 Hasil *Output* Pembebanan Tiang Statis 660 ton



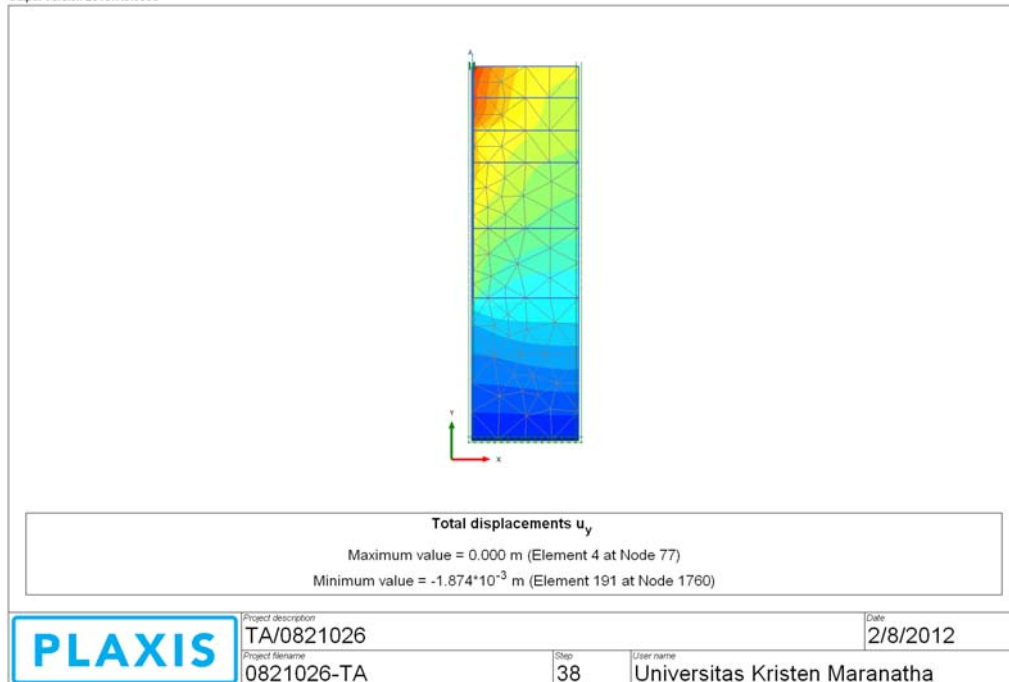
Gambar L2.27 Hasil *Output* Pembebanan Tiang Statis 754 ton



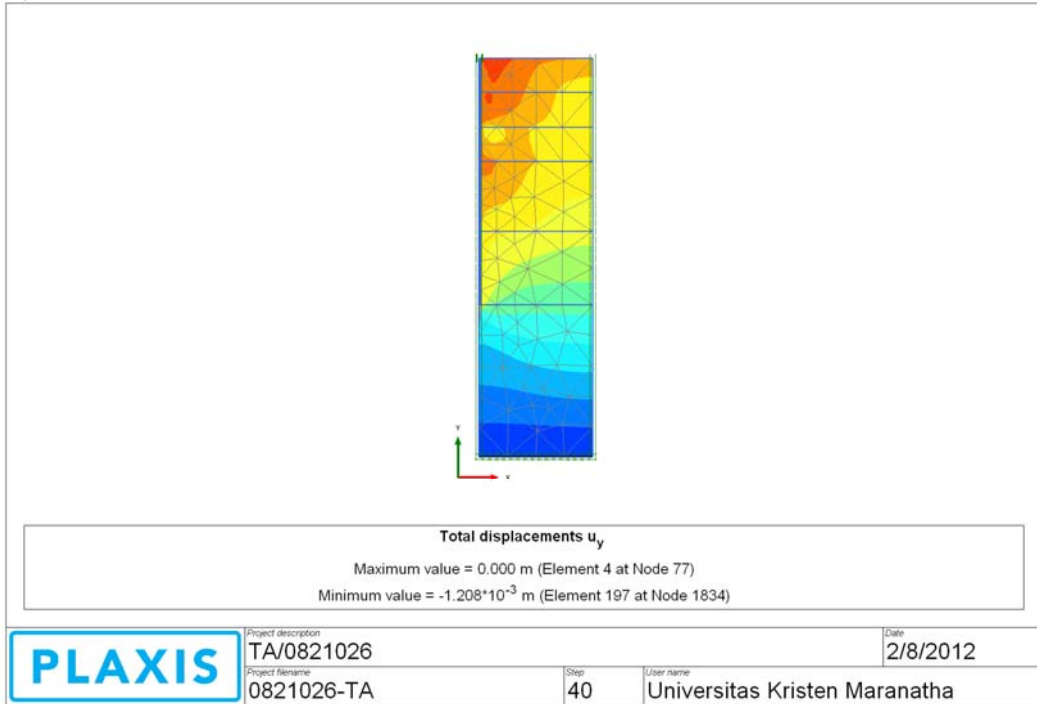
Gambar L2.28 Hasil *Output* Pembebanan Tiang Statis 560 ton



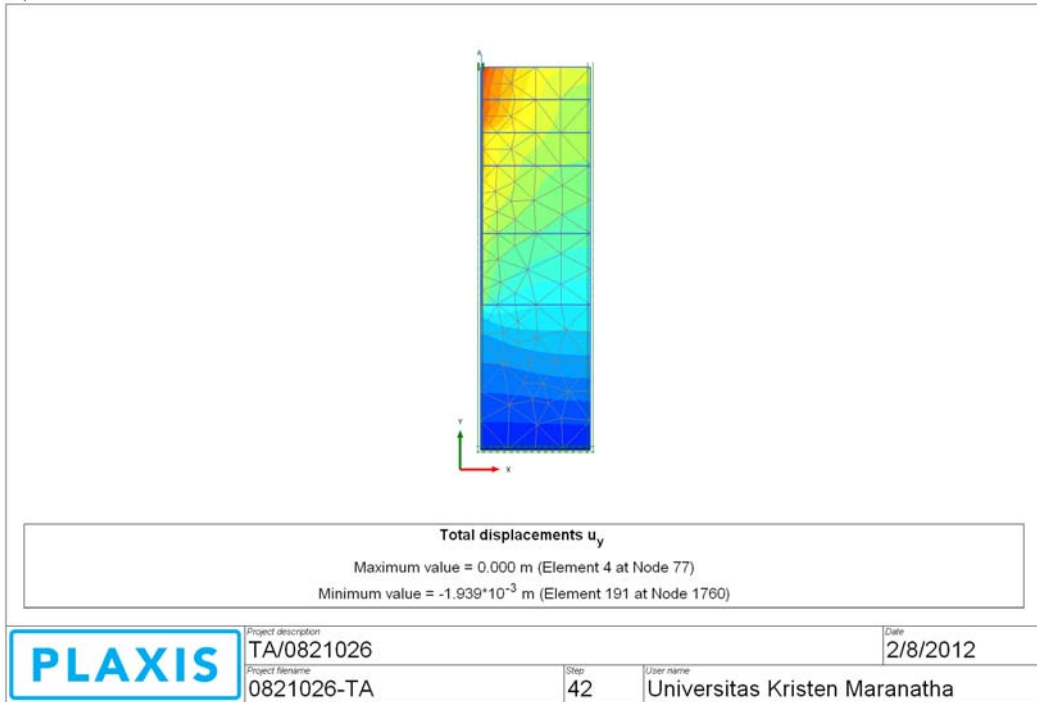
Gambar L2.29 Hasil *Output* Pembebanan Tiang Statis 377 ton



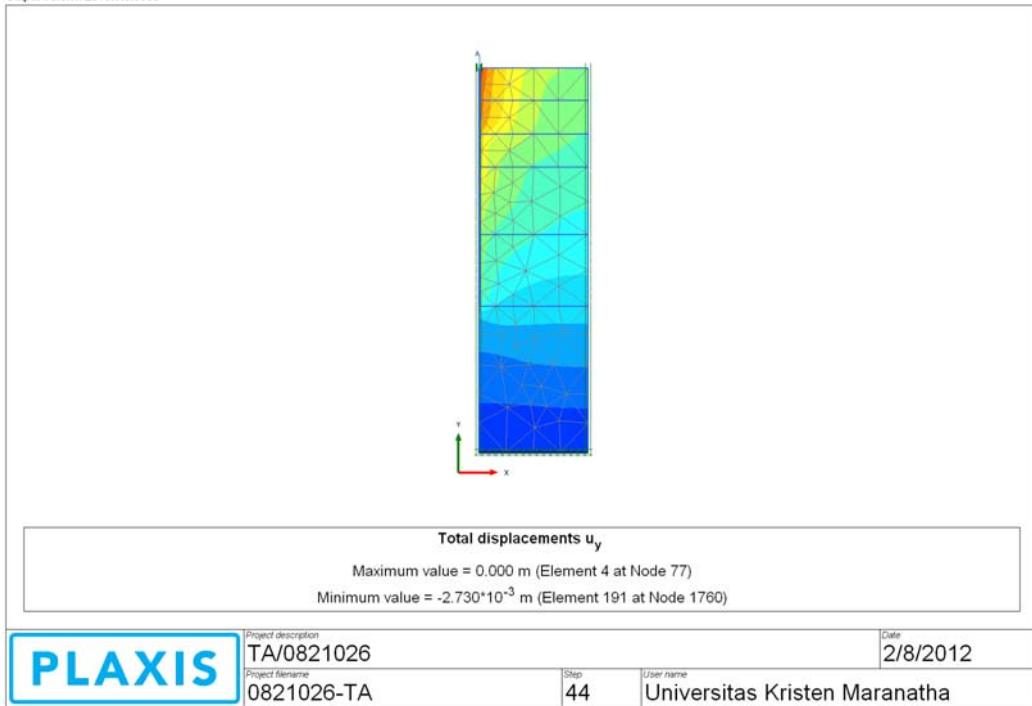
Gambar L2.30 Hasil *Output* Pembebanan Tiang Statis 180 ton



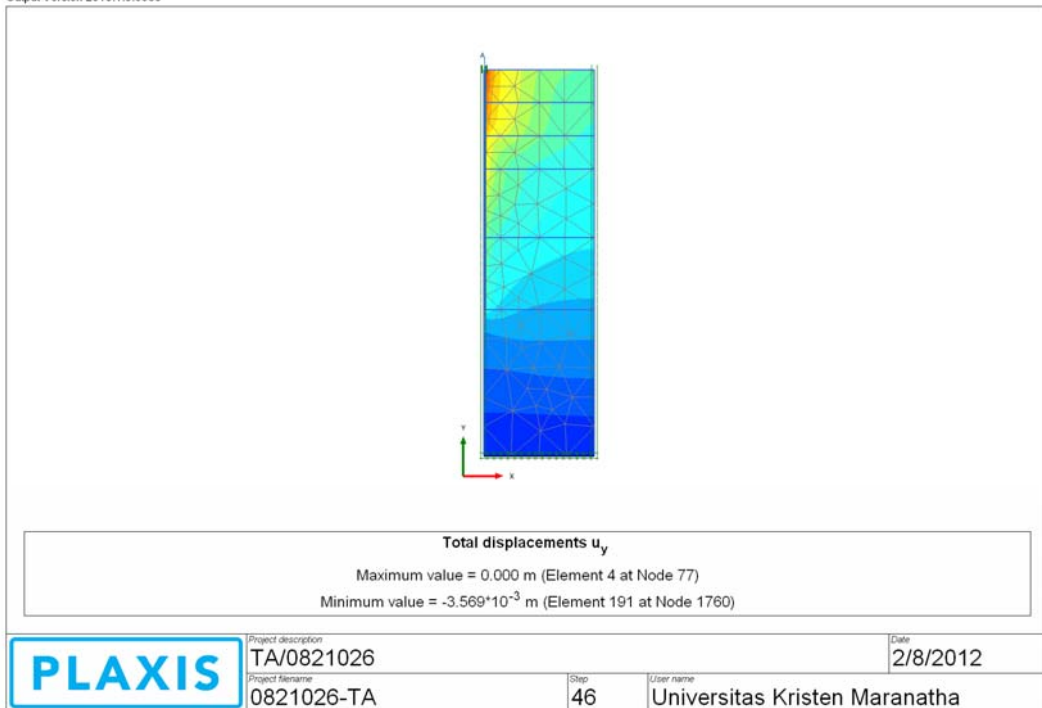
Gambar L2.31 Hasil *Output* Pembebanan Tiang Statis 0 ton



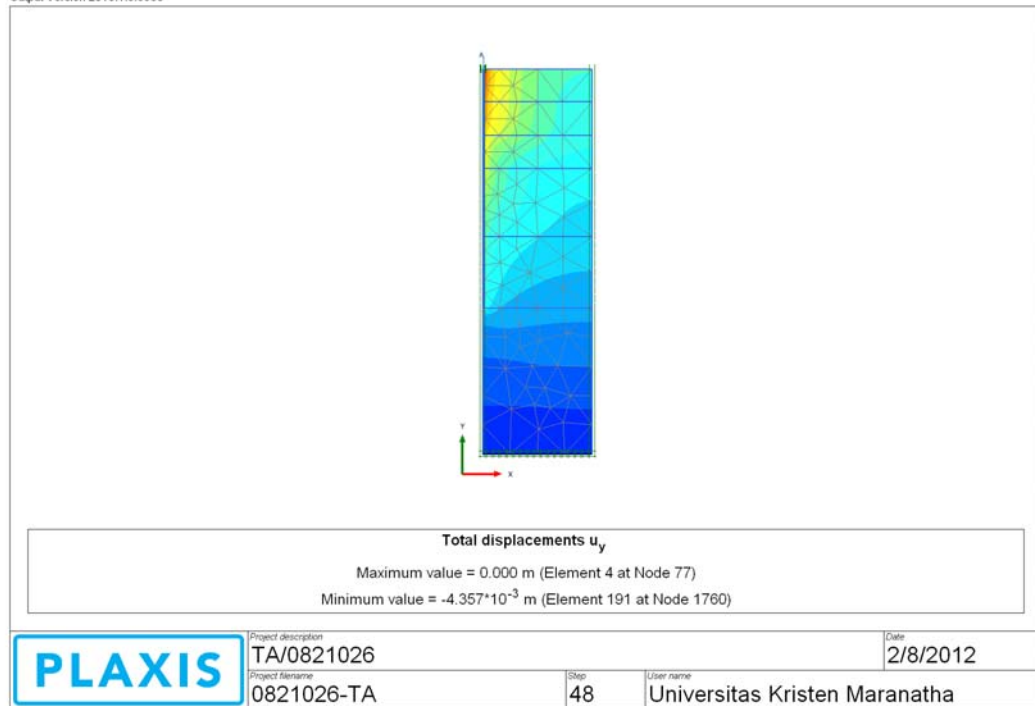
Gambar L2.32 Hasil *Output* Pembebanan Tiang Statis 195 ton



Gambar L2.33 Hasil *Output* Pembebanan Tiang Statis 377 ton

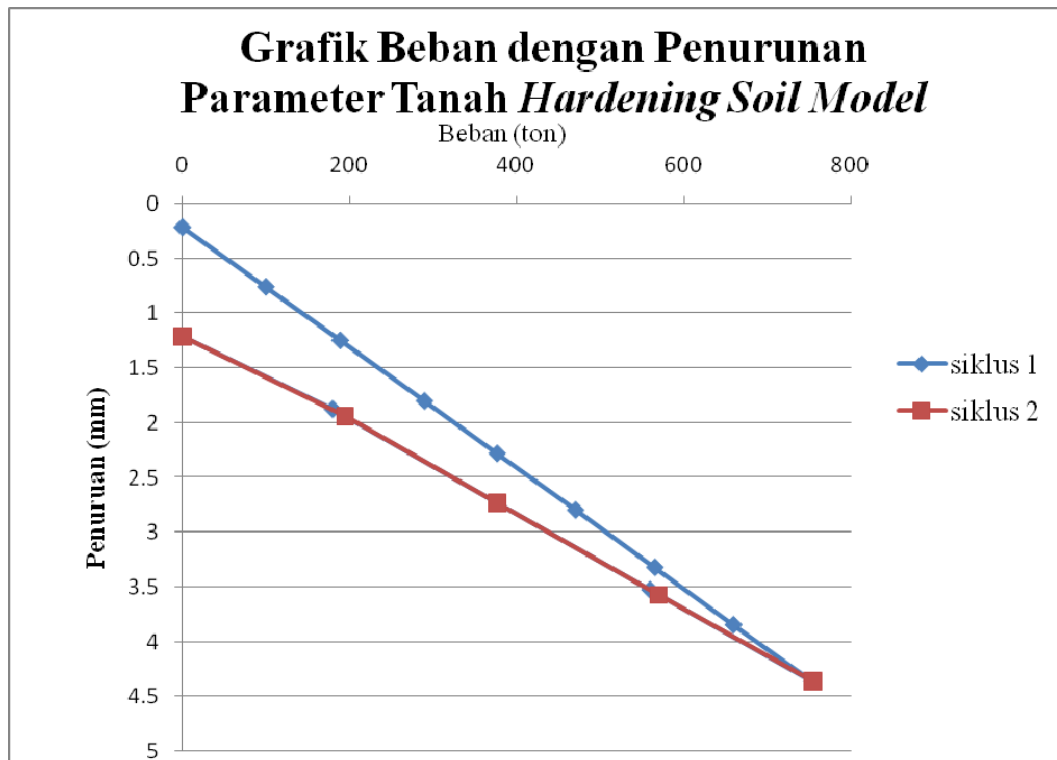


Gambar L2.34 Hasil *Output* Pembebanan Tiang Statis 570 ton



Gambar L2.35 Hasil *Output* Pembebanan Tiang Statis 755 ton

Grafik hubungan penurunan dengan beban parameter tanah *Hardening Soil Model* dapat dilihat pada gambar L2.36 dibawah ini.



**Gambar L2.36 Grafik Penurunan dengan Beban
Parameter Tanah *Hardening Soil Model***

Hasil grafik yang cenderung kembali lagi ke posisi awal, menandakan bahwa tanah masih dalam kondisi elastis.