

GeoStudio



GeoStudio™ 2007



SLOPE/W® 2007



TEMP/W® 2007



SEEP/W® 2007



CTRAN/W® 2007



SIGMA/W® 2007



AIR/W® 2007



QUAKE/W® 2007



VADOSE/W® 2007

SLOPE/W

Pour déterminer le facteur minimum de sécurité et la surface critique de glissement



Name:

Description:

Parent:

Analysis Type:

Settings

Slip Surface

FOS Distribution

Advanced

Side Function:

PWP Conditions from:

Apply Phreatic Correction

Staged Rapid Drawdown analysis (using 2 Piezometric Lines)



Name:

Description:

Parent:

Analysis Type:

Settings

Slip Surface

FOS Distribution

Advanced

Direction of movement

Left to right

Right to left

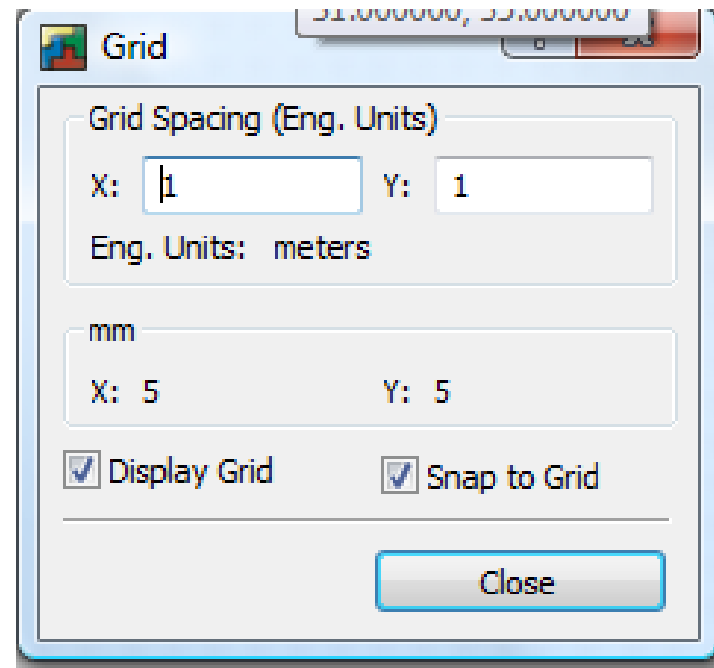
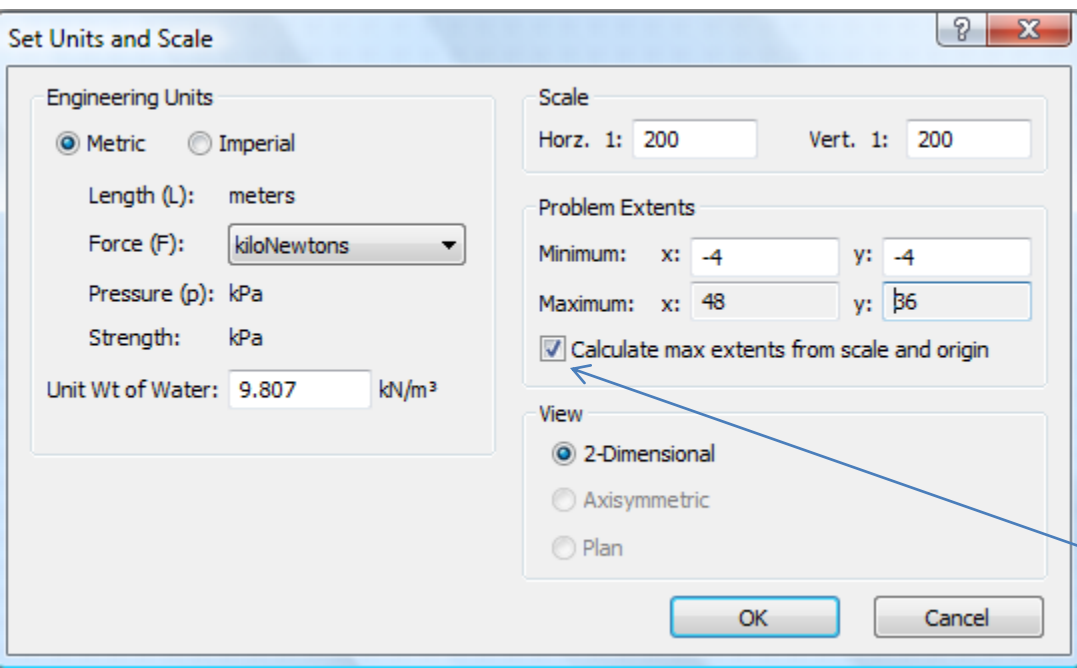
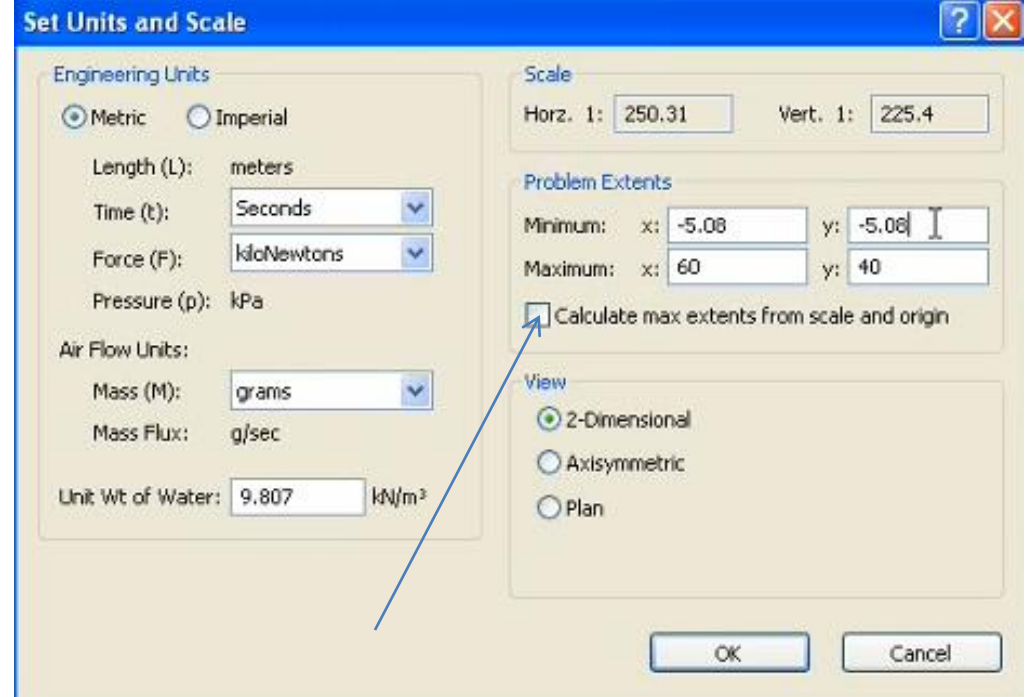
Use passive mode

Slip Surface Option

Entry and Exit

Specify radius tangent lines

No. of critical slip surfaces to store:



Axes ? X

Display

Left Axis Right Axis

Top Axis Bottom Axis

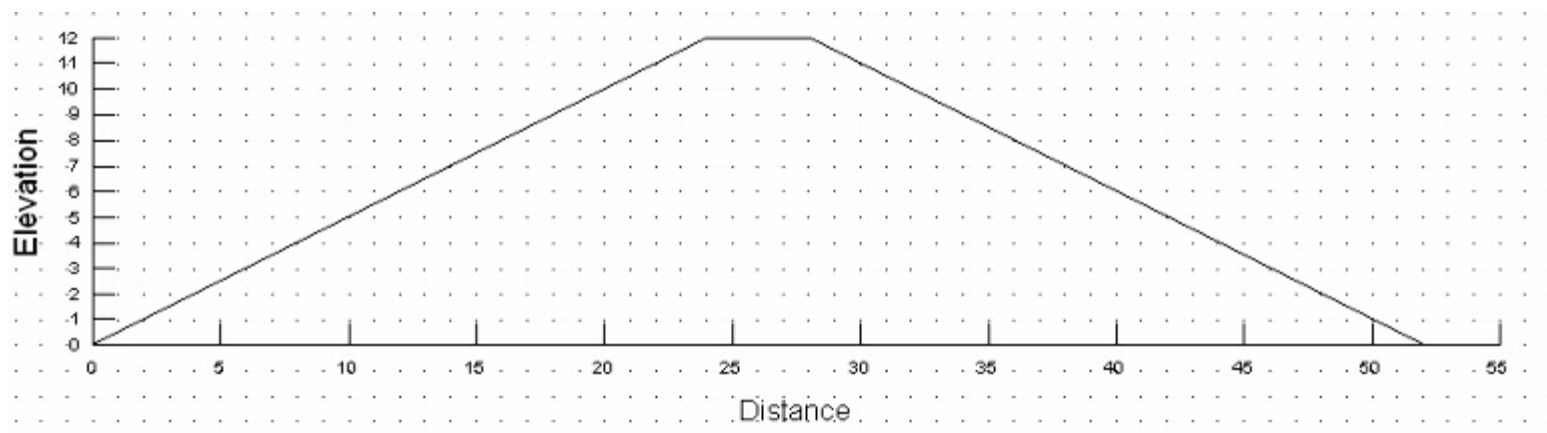
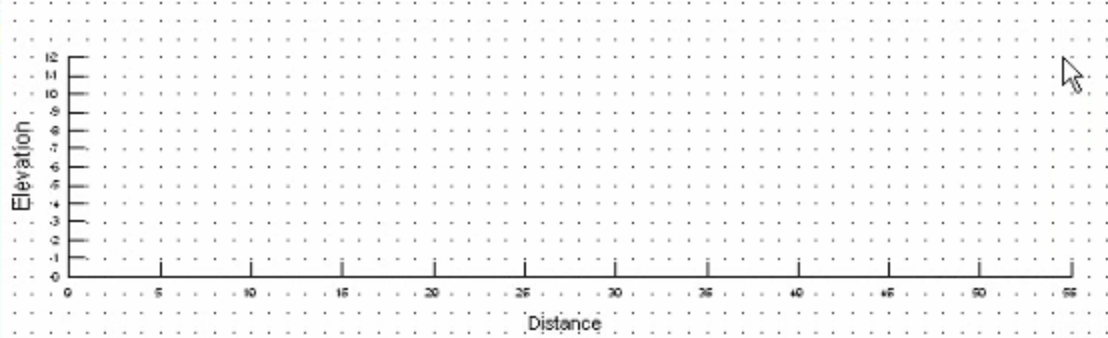
Axis Numbers

Axis Titles

Bottom X:

Left Y:

OK Cancel



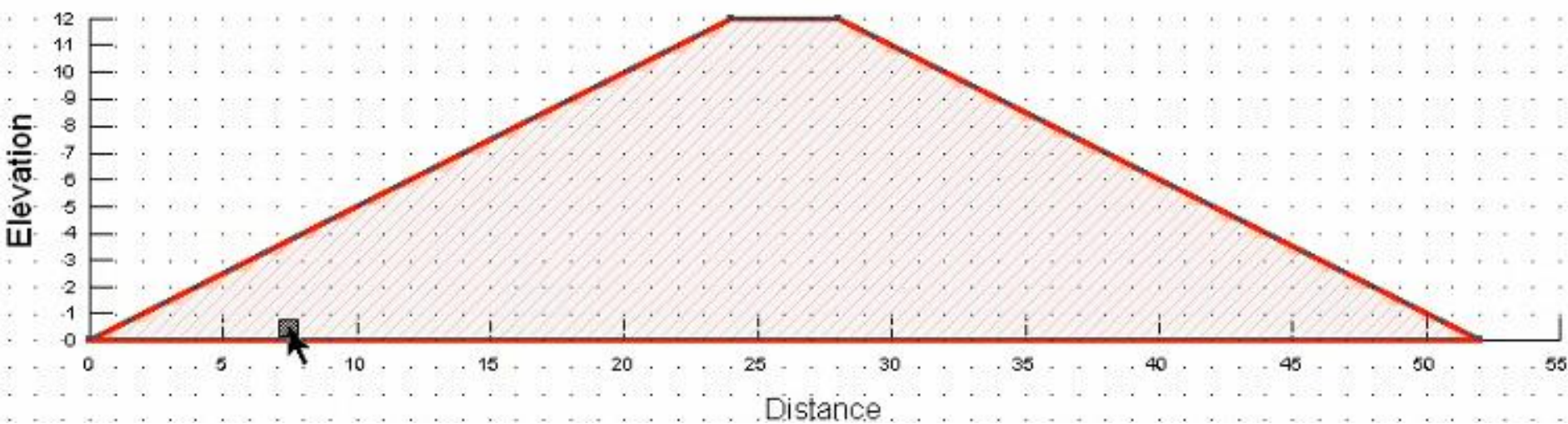
Draw Regions ? ✕

Draw: Region Circular Opening Infinite Region

Selected Region:

Region Type: Background Polygon

Region Points:



8.060000, 30.960000

Draw Materials [?] [X]

Select: Regions

Remove

Assign:

KeyIn...

View Assigned...



KeyIn Materials



Materials

Name	Color
mateiau	

Add ▼

Delete

Assigned...

Name: mateiau

Color: Set...

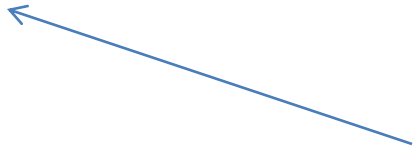
Material Model: Mohr-Coulomb ▼

Basic

Unit Weight: 15 kN/m³ ...

Cohesion: 5 kPa ...

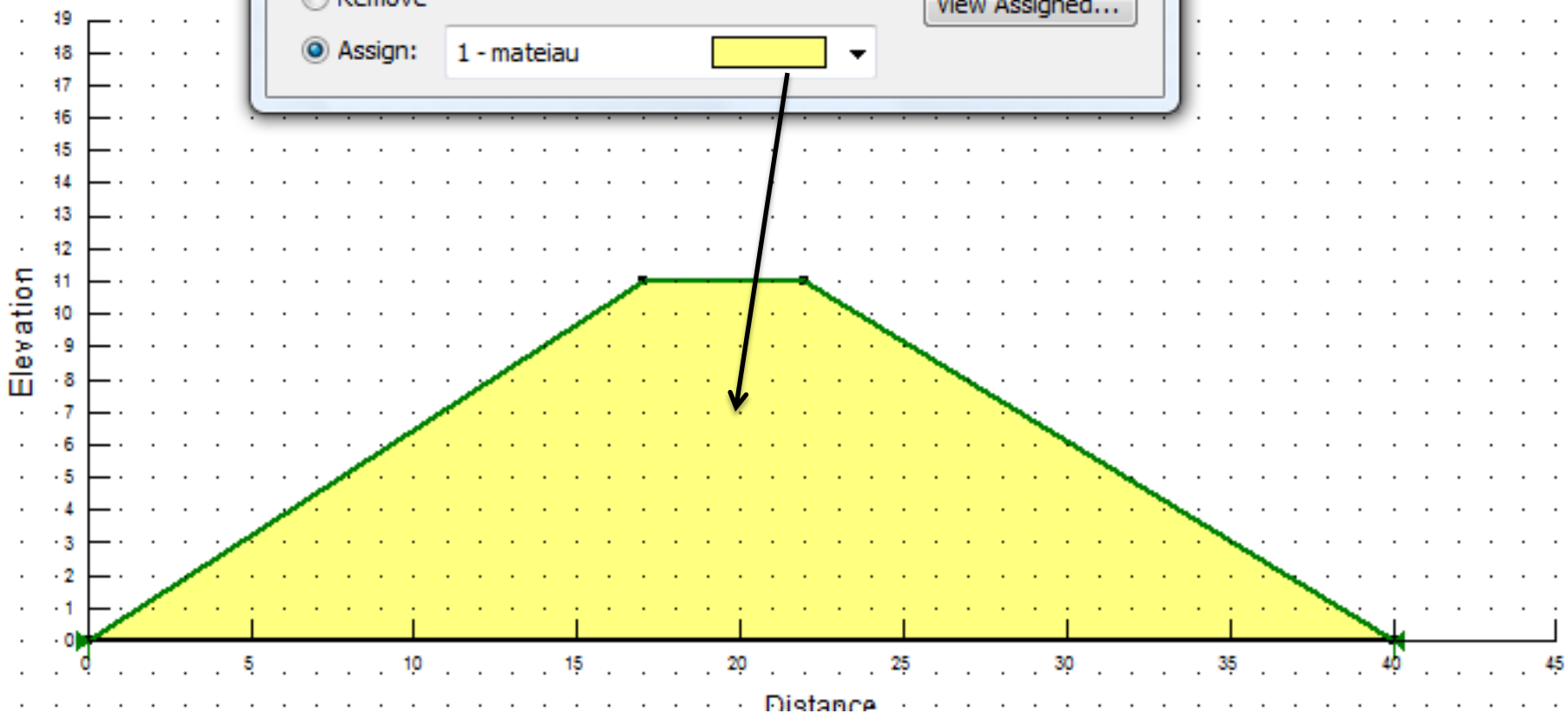
Phi: 20 ° ...

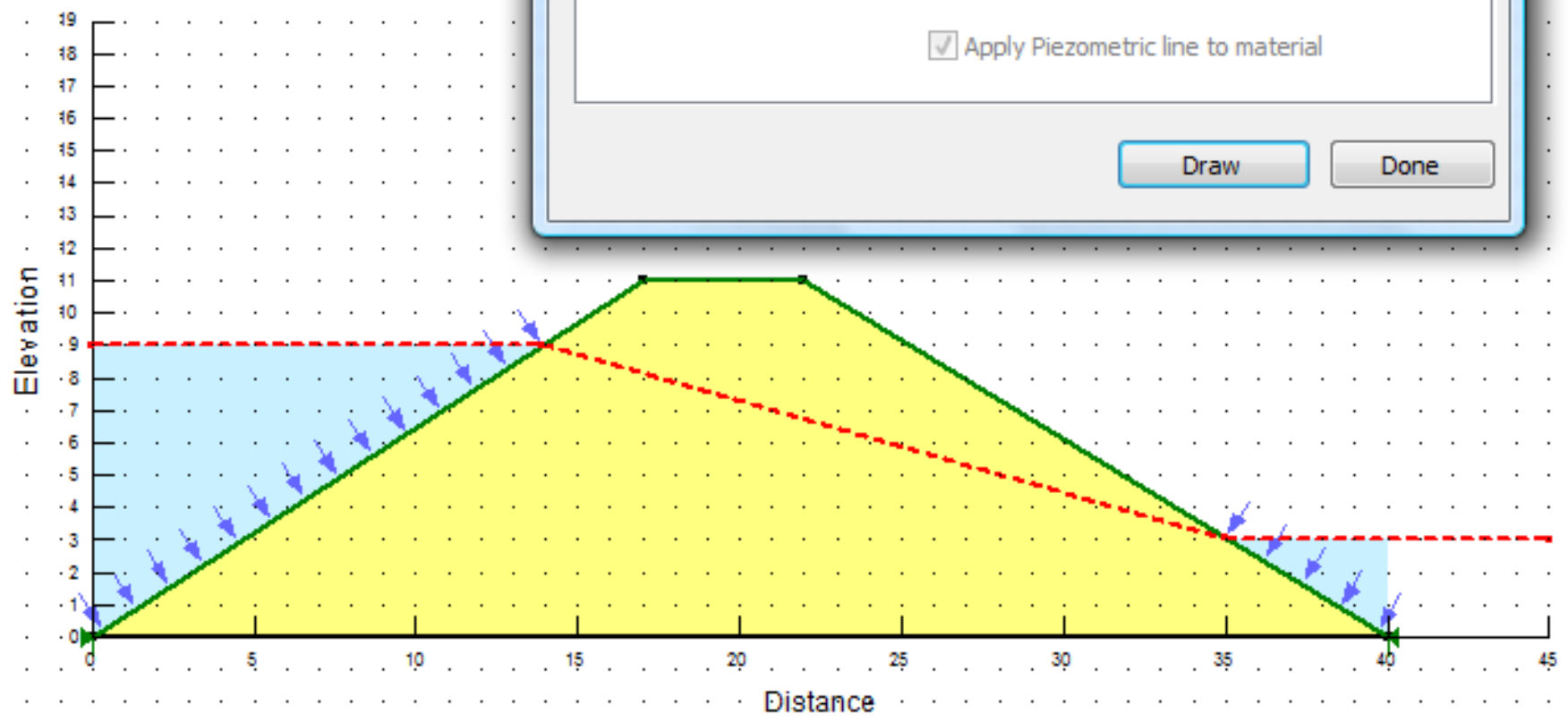
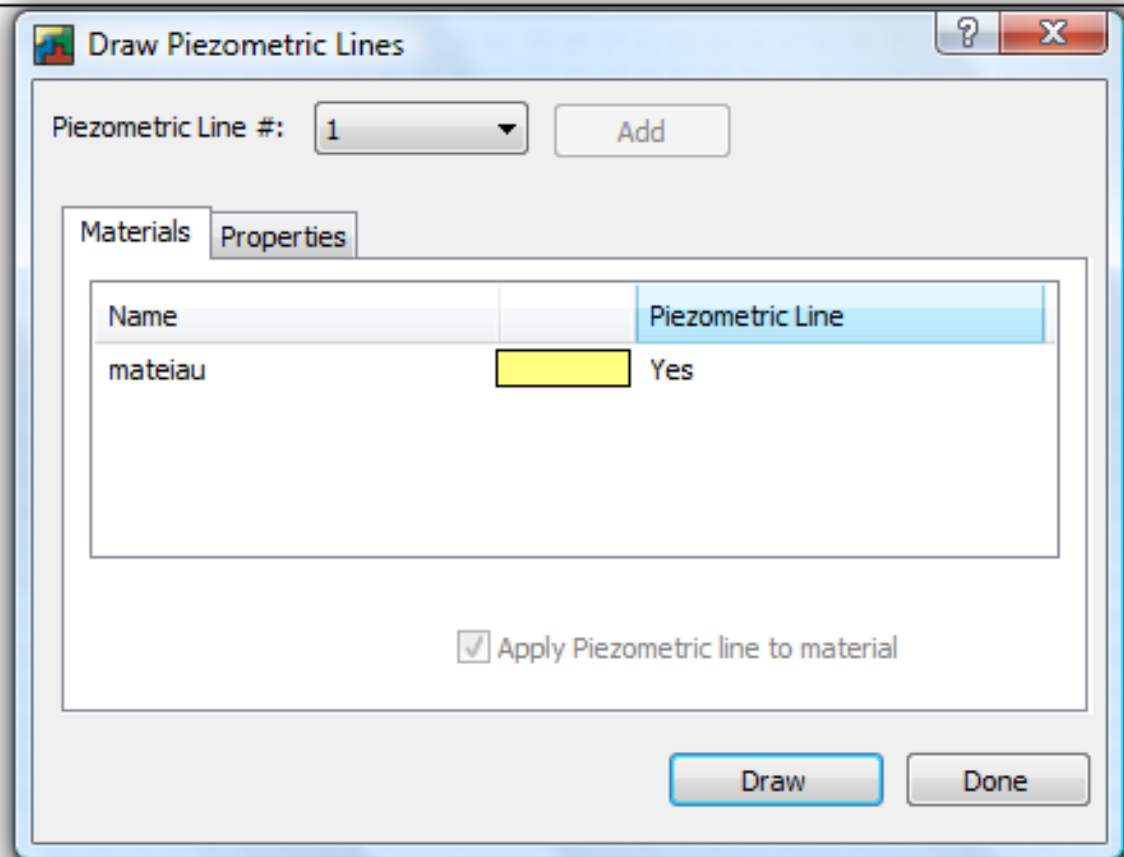


Draw Materials [?] [X]

Select: Regions Remove Assign: 1 - mateiau [v]

KeyIn... View Assigned...





Draw Slip Surface Entry and Exit Range

Entry Range (Left Side)

Type:

Range

Left Point:

X: 17.160000

Y: 11.000000

Right Point:

X: 22.000000

Y: 11.000000

Number of increments over range:

4

Exit Range (Right Side)

Type:

Range

Left Point:

X: 22.948135

Y: 10.420584

Right Point:

X: 40.000000

Y: 0.000000

Number of increments over range:

4

Number of radius increments:

4

Slip Surface Projection Angle

Use Left (Active) Projection Angle:

135

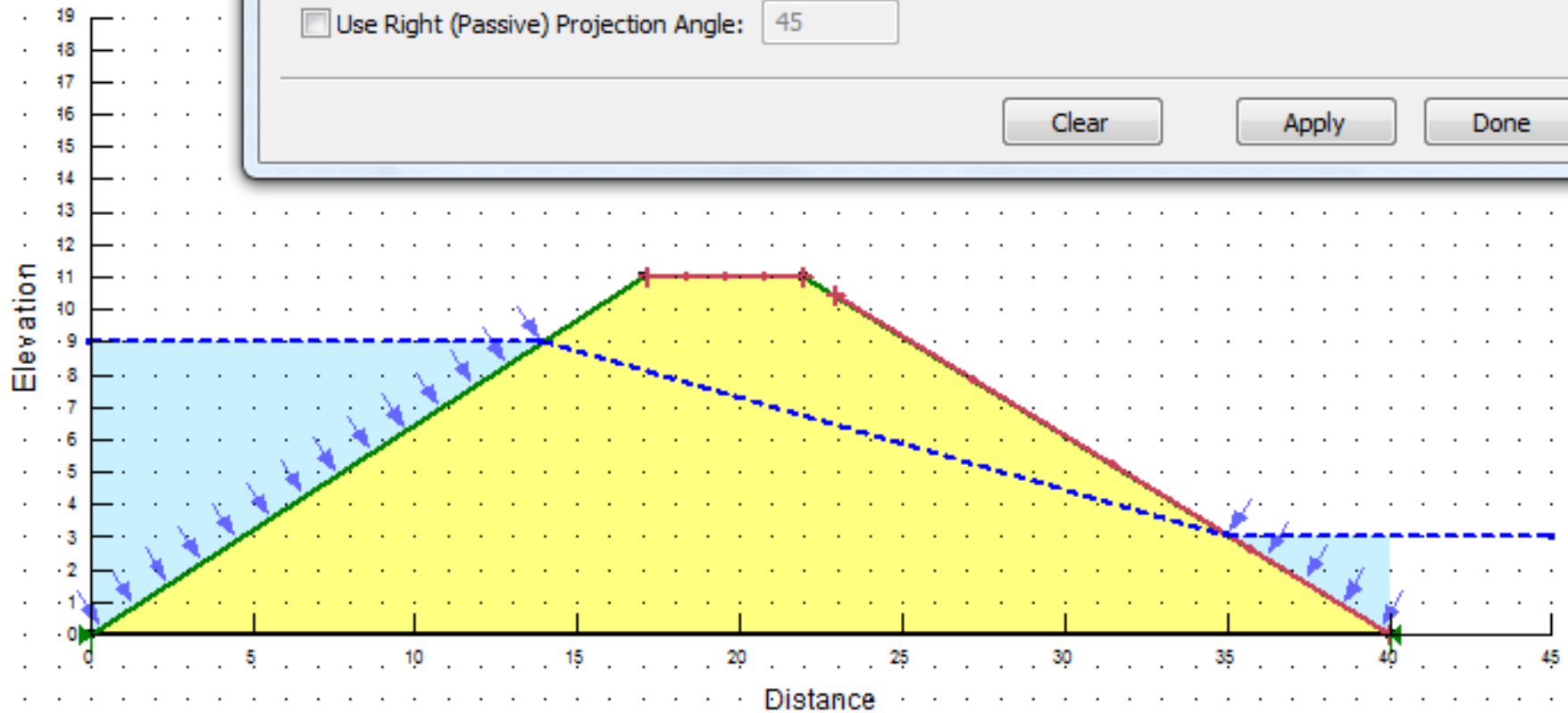
Use Right (Passive) Projection Angle:

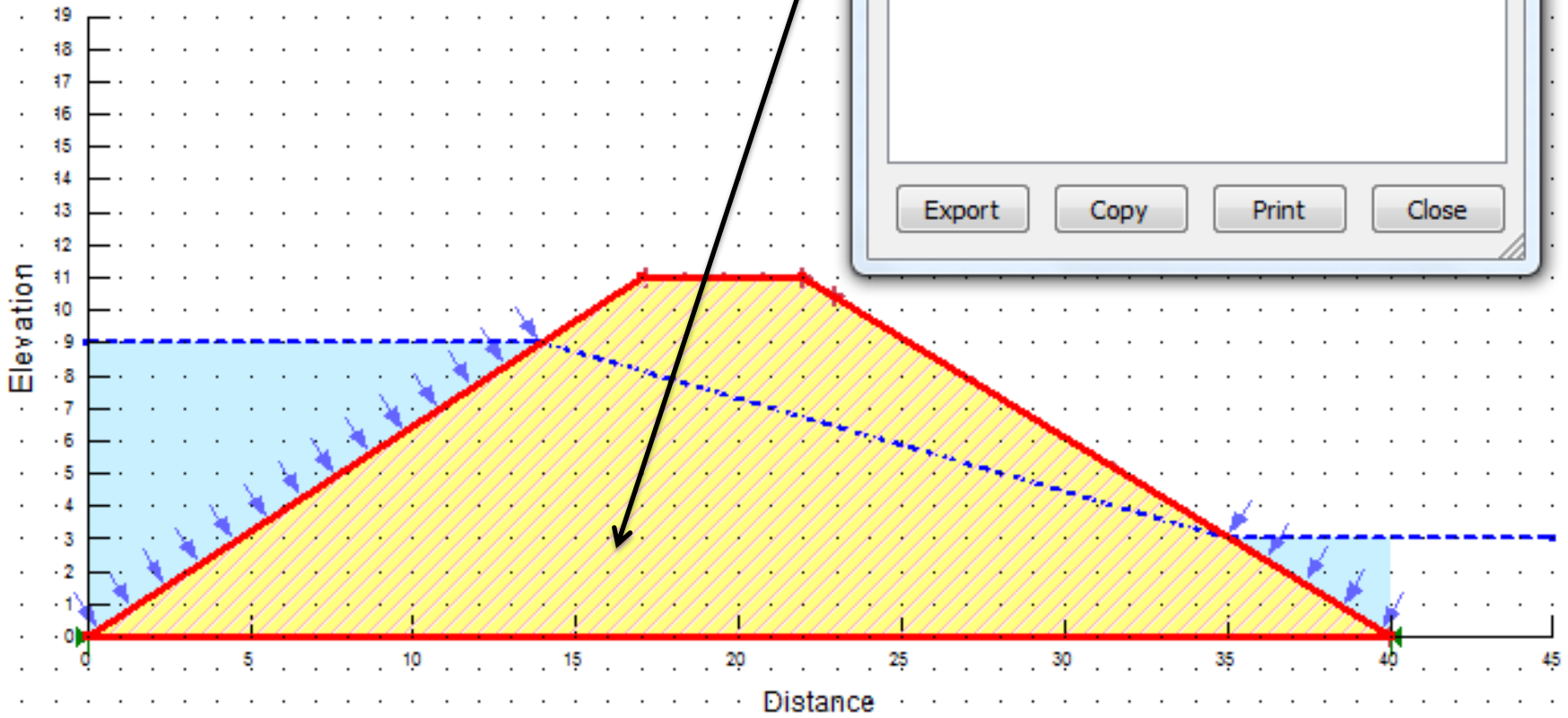
45

Clear

Apply

Done



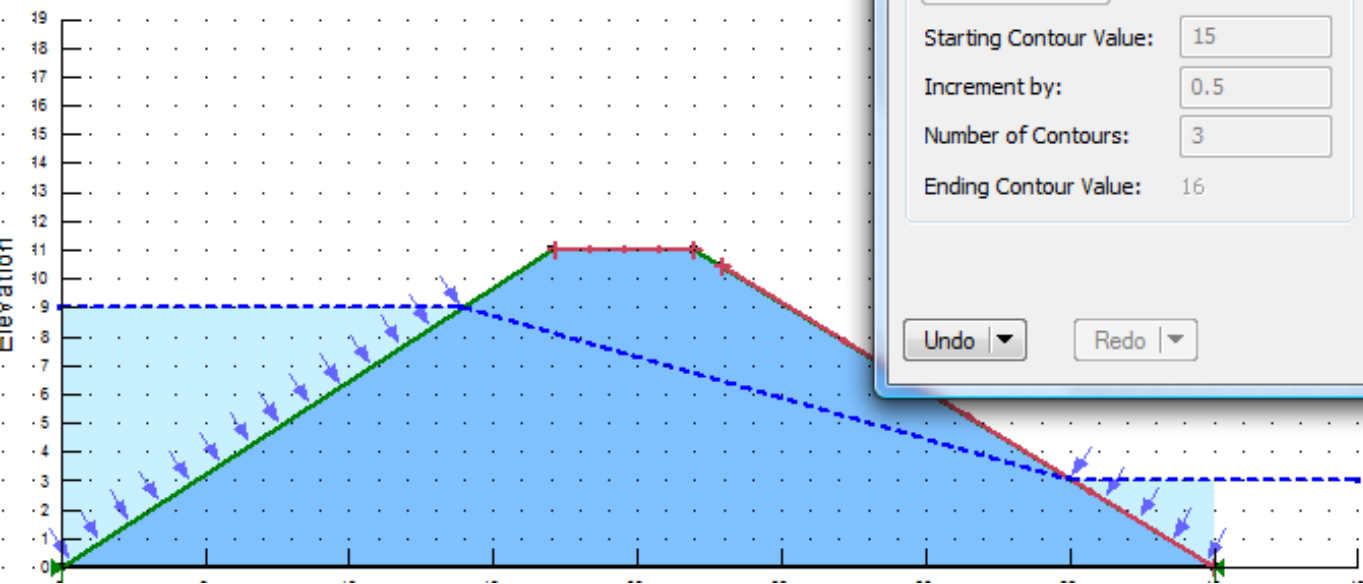


View Object Information

Region 1

- material: material
 - Color:
 - Model: Mohr-Coulomb
 - Unit Weight: 15 kN/m³
 - Cohesion: 5 kPa
 - Phi: 20 °
 - Phi-B: 0 °
- Pore Water Pre
- Points
 - Area: 247.5 m²

Export Copy Print Close



Draw Contours

Add **Delete**

Name:

Contour Parameter

Category:

Parameter:

Data Range

Min.: 15 Max.: 15

Contour Shading

Method:

Colors Per Interval:

Start Color: **Set...**

End Color: **Set...**

Auto Range

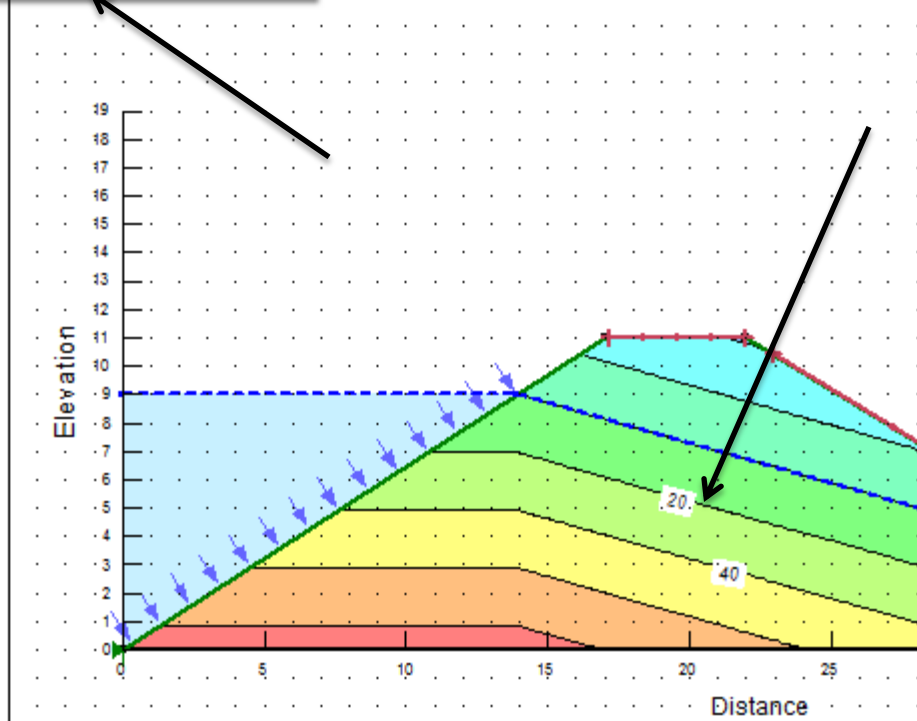
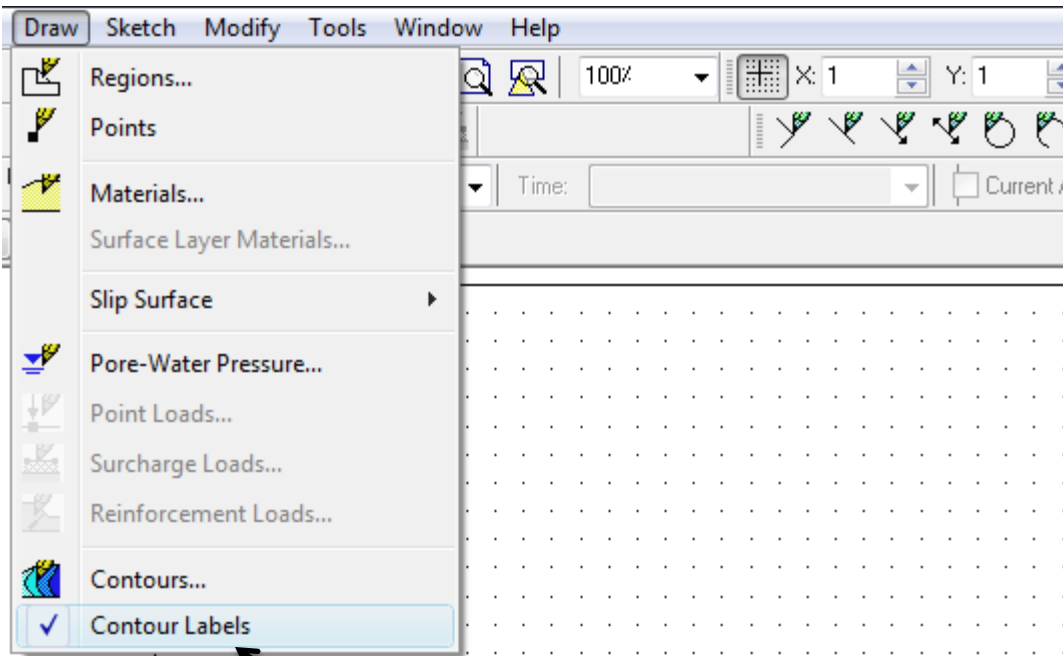
Starting Contour Value:

Increment by:

Number of Contours:

Ending Contour Value:

Undo **Redo** **Close**





Verify/Optimize Data



Information:

Verifying selected units...
Verifying analysis settings...
Verifying view...
Verifying that each node is attached to an element...
Verifying secondary nodes for each element...
Verifying that each element has a positive area...
Verifying material properties...
Verifying flux sections...
Checking analysis settings...
Verifying integration files...
Verification completed -- 0 error(s), 0 warning(s).



Stop

Close



slope master conf.gsz - SLOPE/W SO...

File Help

SLOPE/W® 2007

Data File: slope master conf.gsz
Analysis: SLOPE/W Analysis

	Minimum Factor of Safety	
	Moment	Force
Ordinary:	0.679	-
Bishop:	0.793	-
Janbu:	-	0.719
M - P:	0.797	0.799

Slip Surface #: 125 of 125

Analysis completed.

Start Stop

Solve Analyses

Select which analyses to solve:

Analysis Name	Kind	Last Solved	Status
SLOPE/W Analysis	SLOPE/W	05/05/2013 00:37:45	Solved

Options

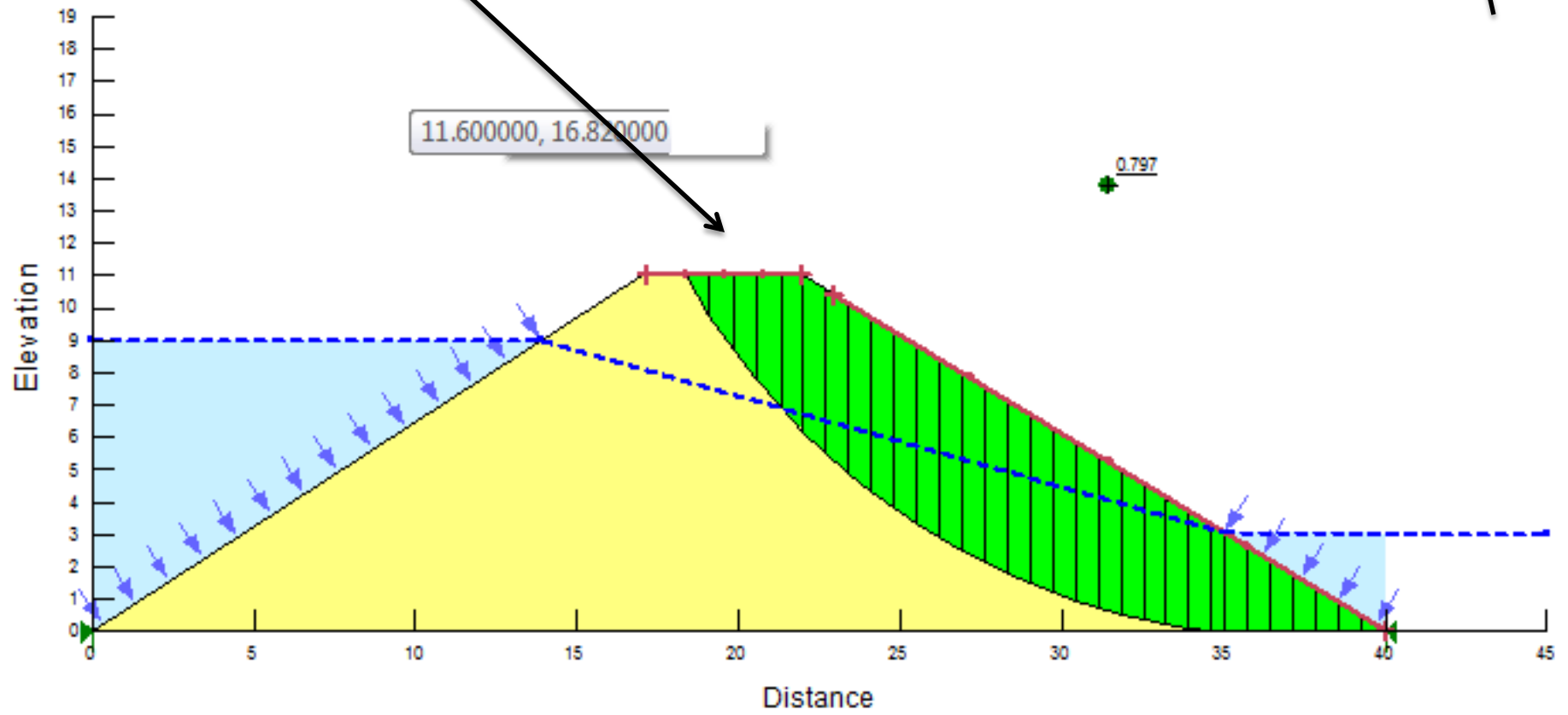
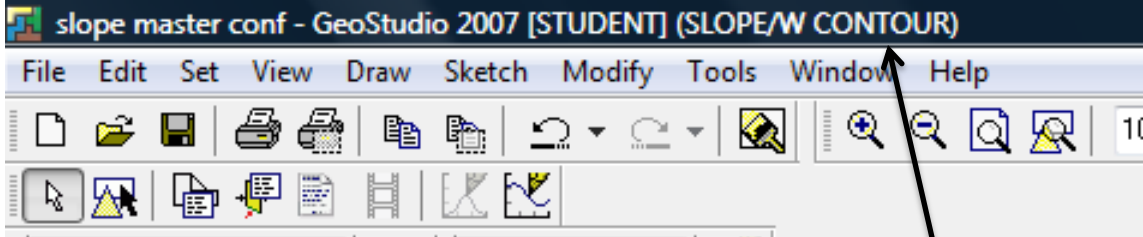
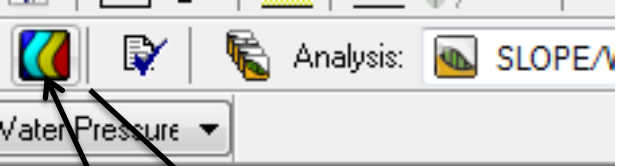
Close SOLVE after each analysis
 Continue from the last solved step

Show Changes

Start

Close





Slip Surfaces

Slip #	F of S		Center X	Center Y	Radius
48	0.797	***	37.309	21.475	21.64
23	0.803		36.47	21.882	22.16
73	0.805		38.179	21.073	21.15
99	0.816		35.782	14.908	15.49
74	0.826		34.951	15.081	15.90
124	0.829		36.645	14.738	15.11
98	0.831		39.085	20.676	20.69
49	0.851		34.147	15.256	16.34
24	0.884		33.364	15.434	16.8
125	0.886		34.696	11.548	12.70
123	0.895		40.036	20.286	20.28

*** Denotes slip surface with force data

Select Critical Slip View Slice Info...
 Draw Graph...

Slip Surface Graphs
 Graph
 Close

