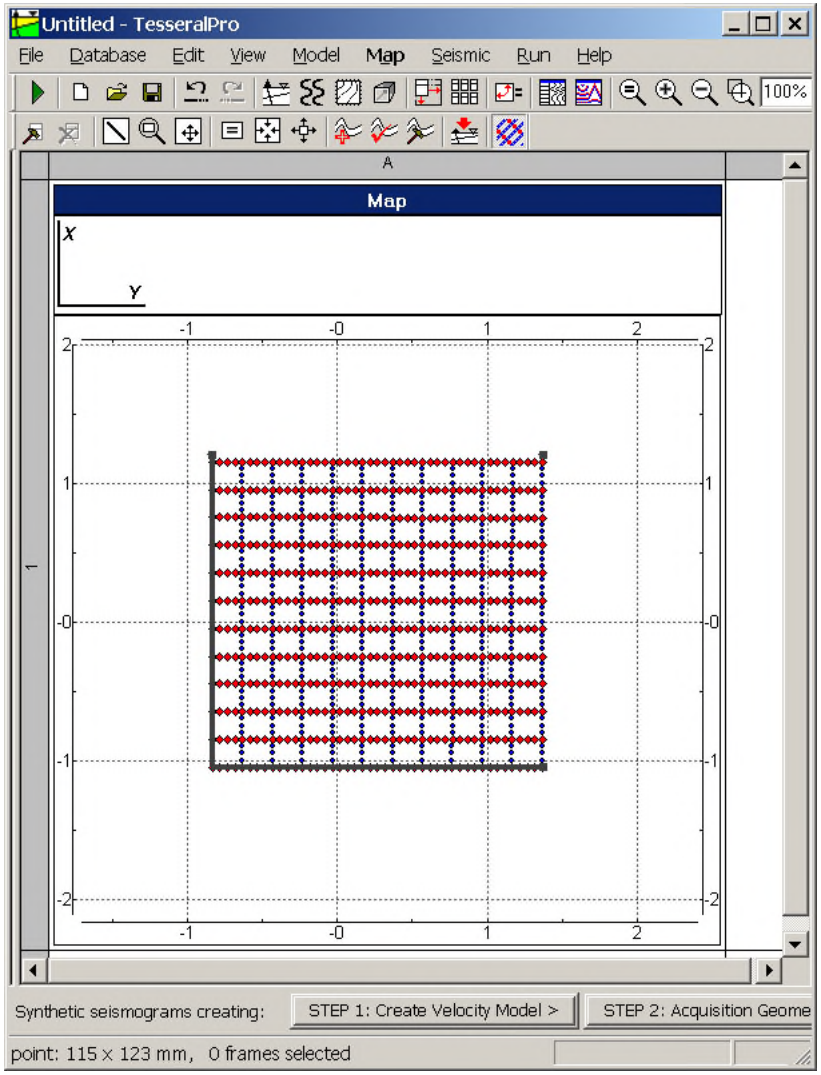
Planning 3D Survey in Tesseral Pro

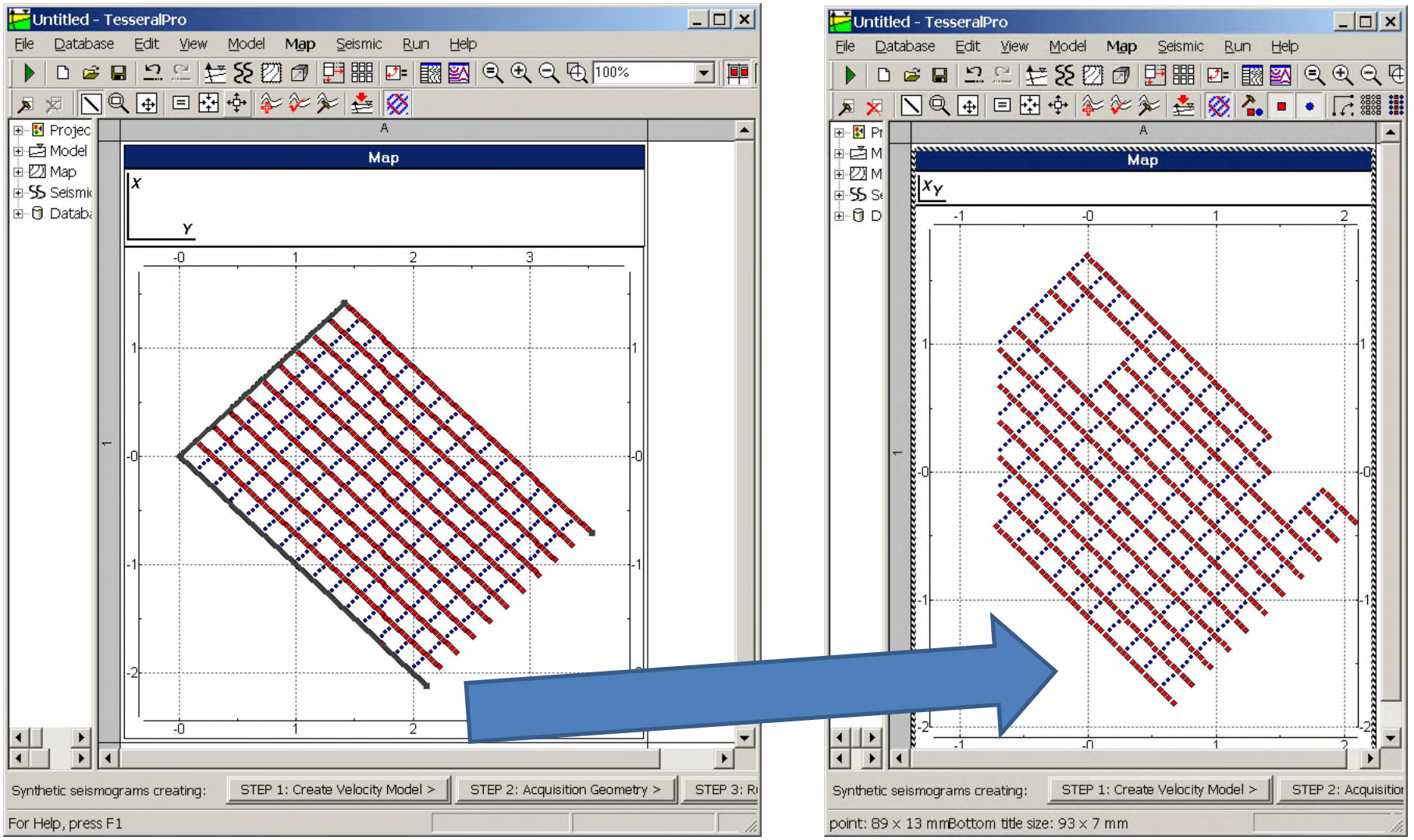
www.tesseral-geo.com

Type of 3D survey design

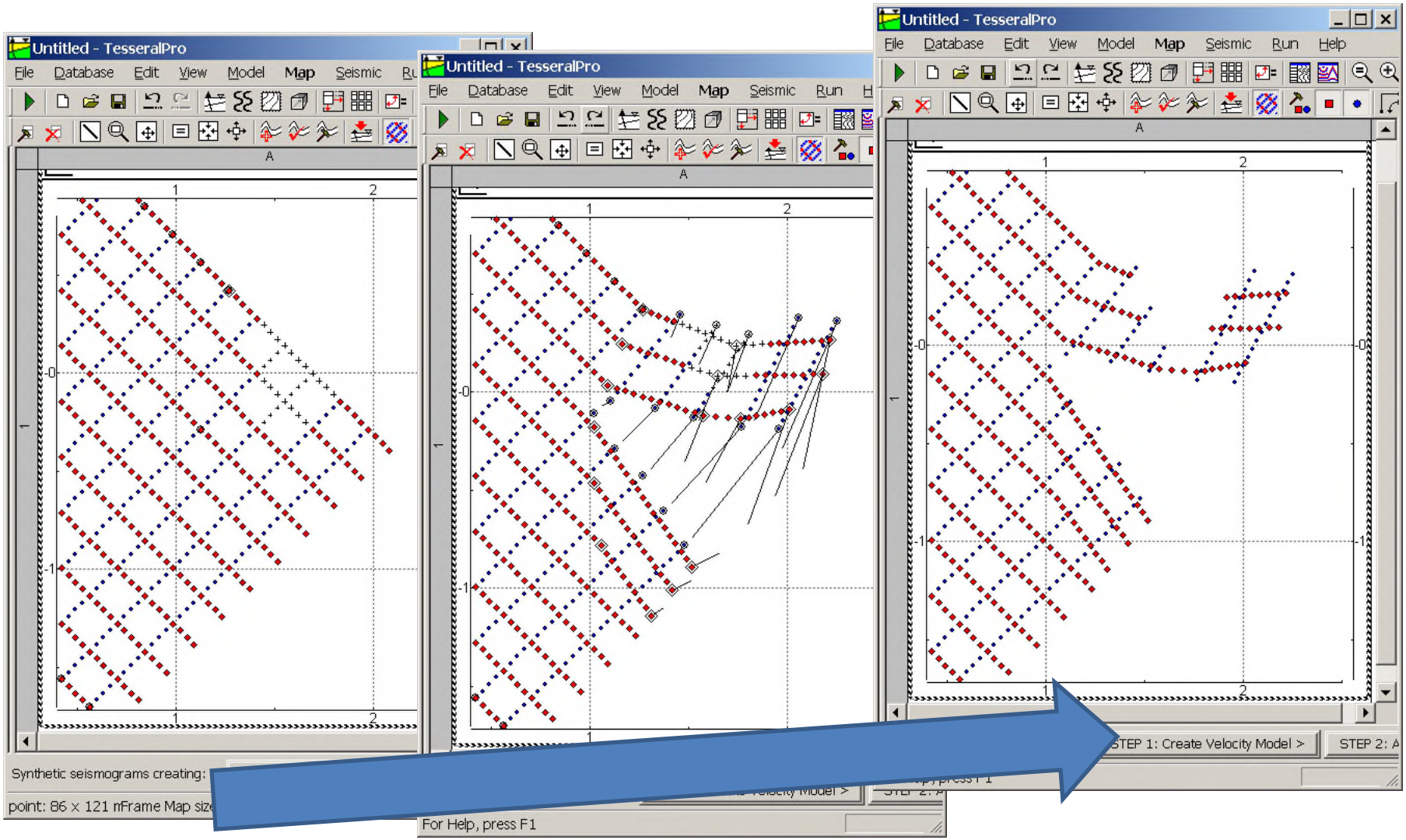
- Orthogonal
- Shot in crankshaft pattern
- Diagonal



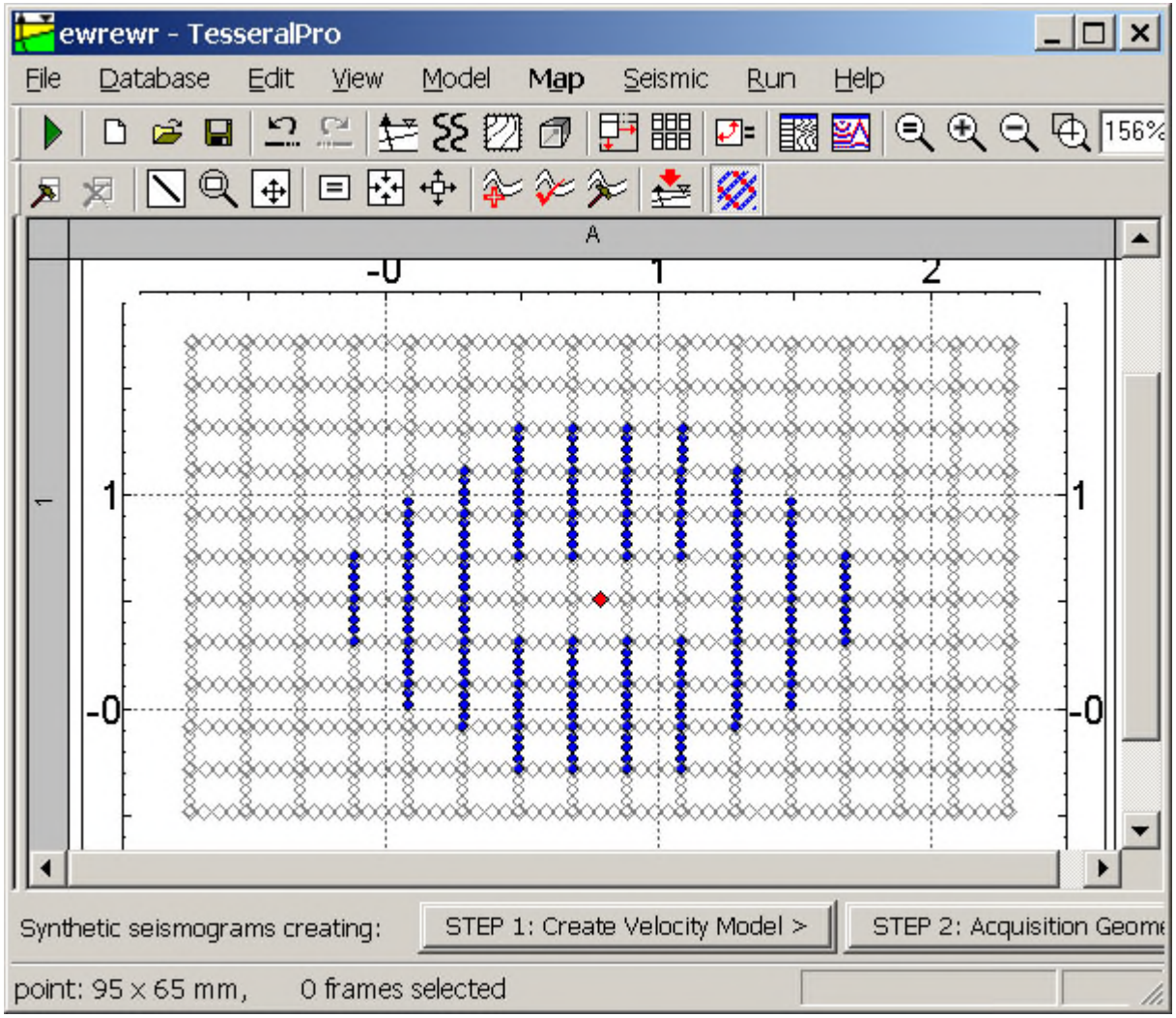
Editing with rotation



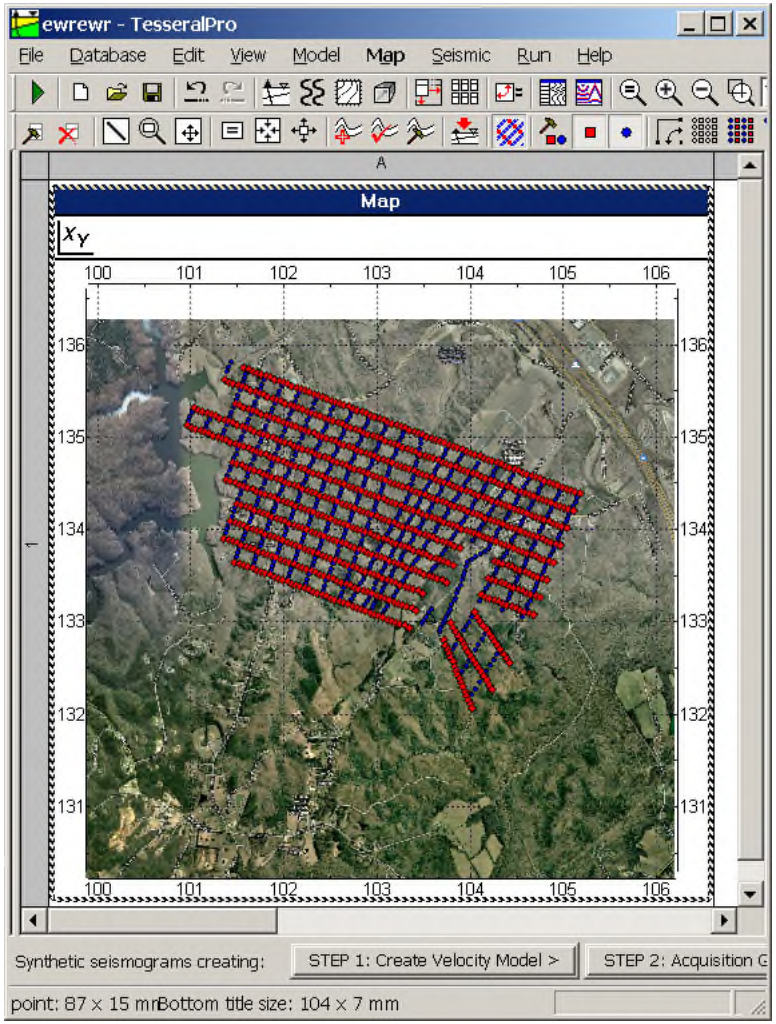
Moving Source and receiver lines in desired direction.



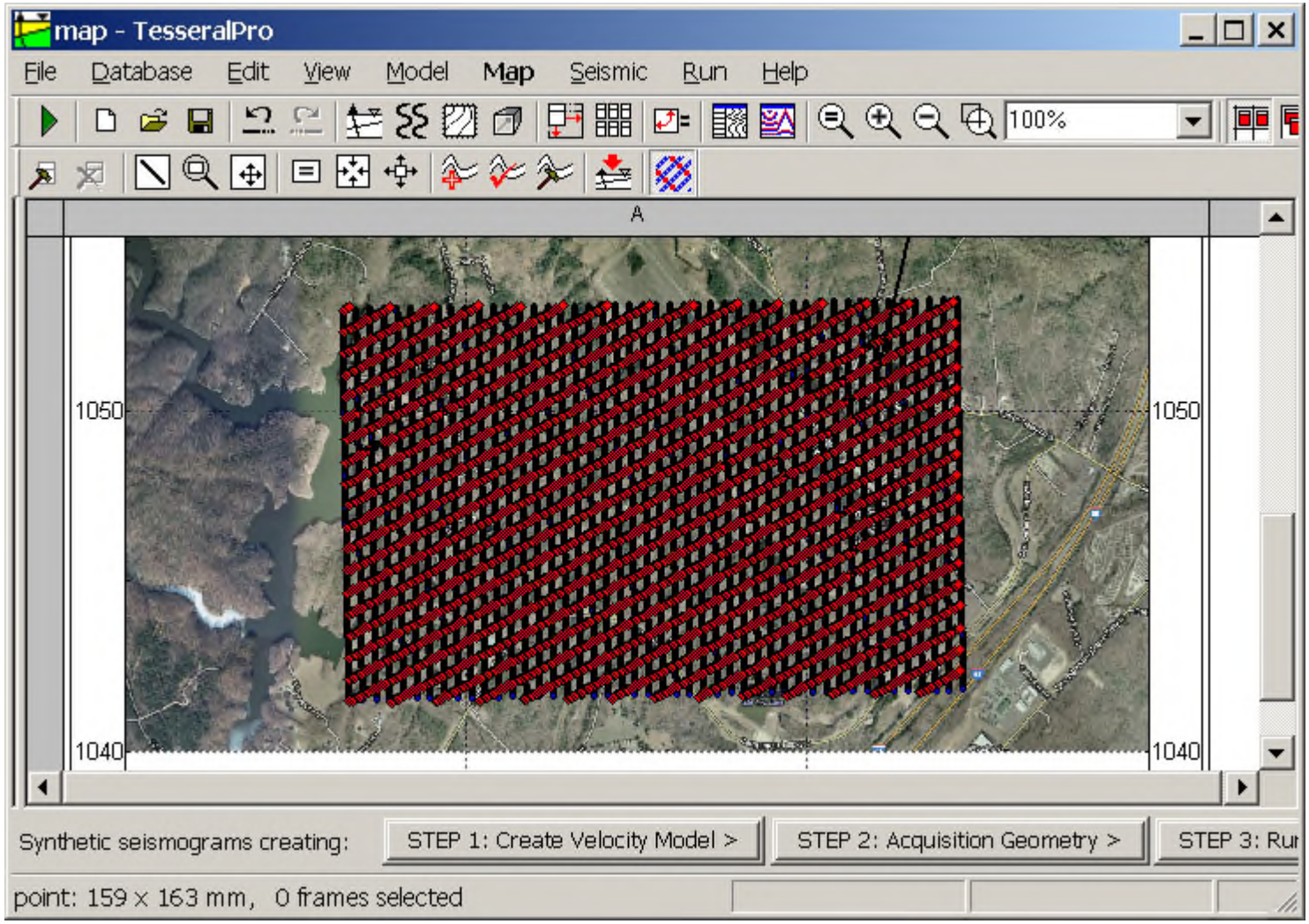
Recording patch design



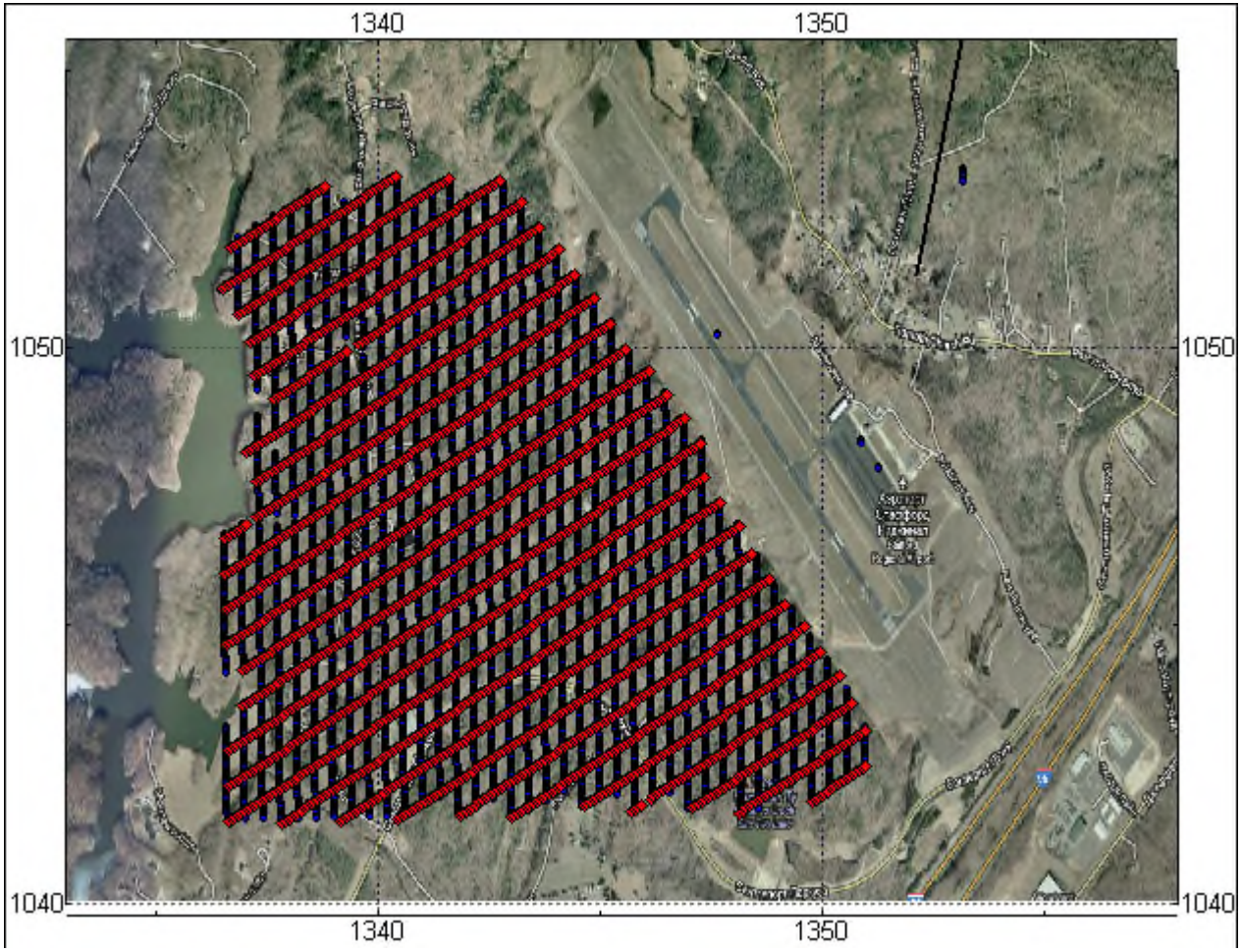
Position survey design on topographic map

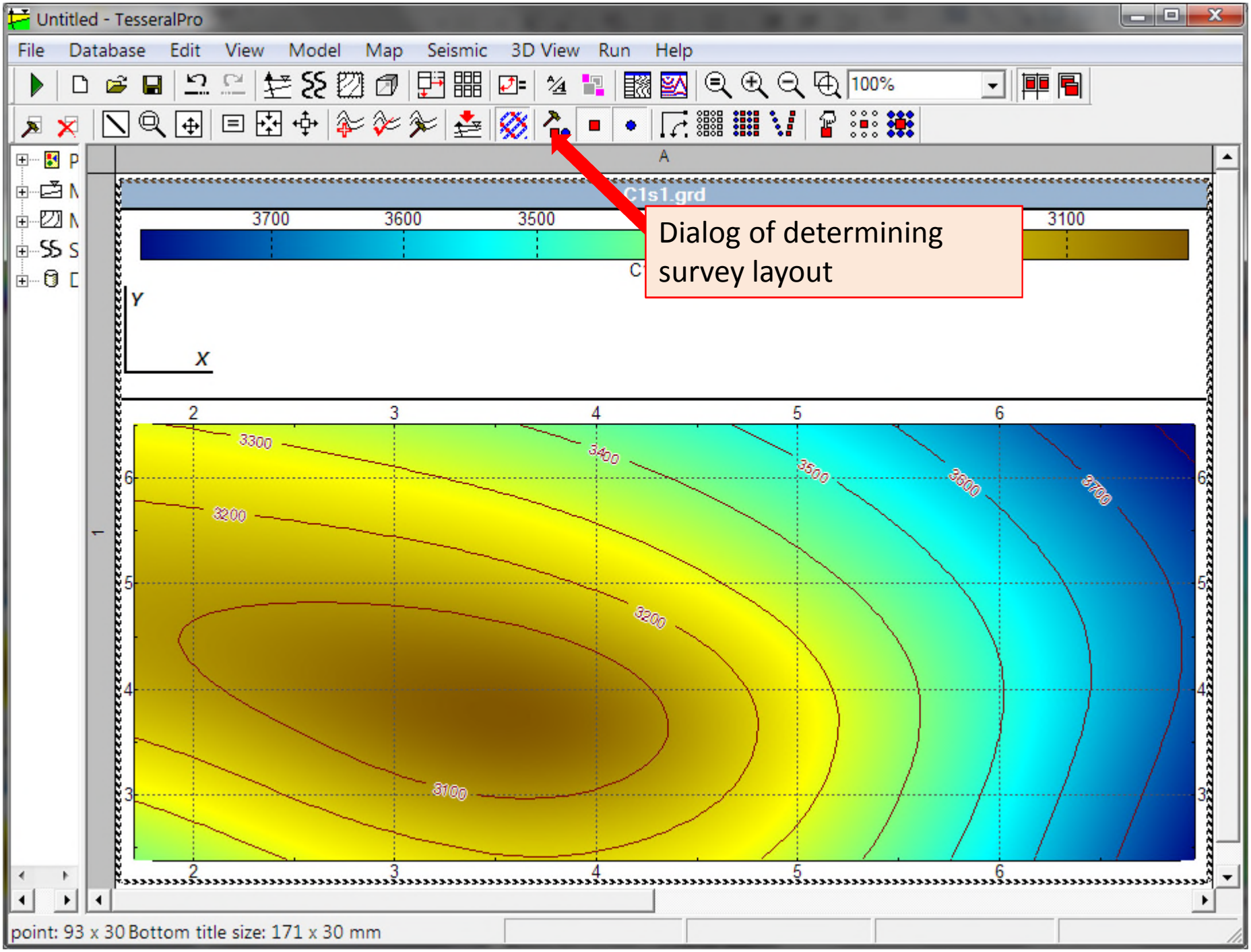


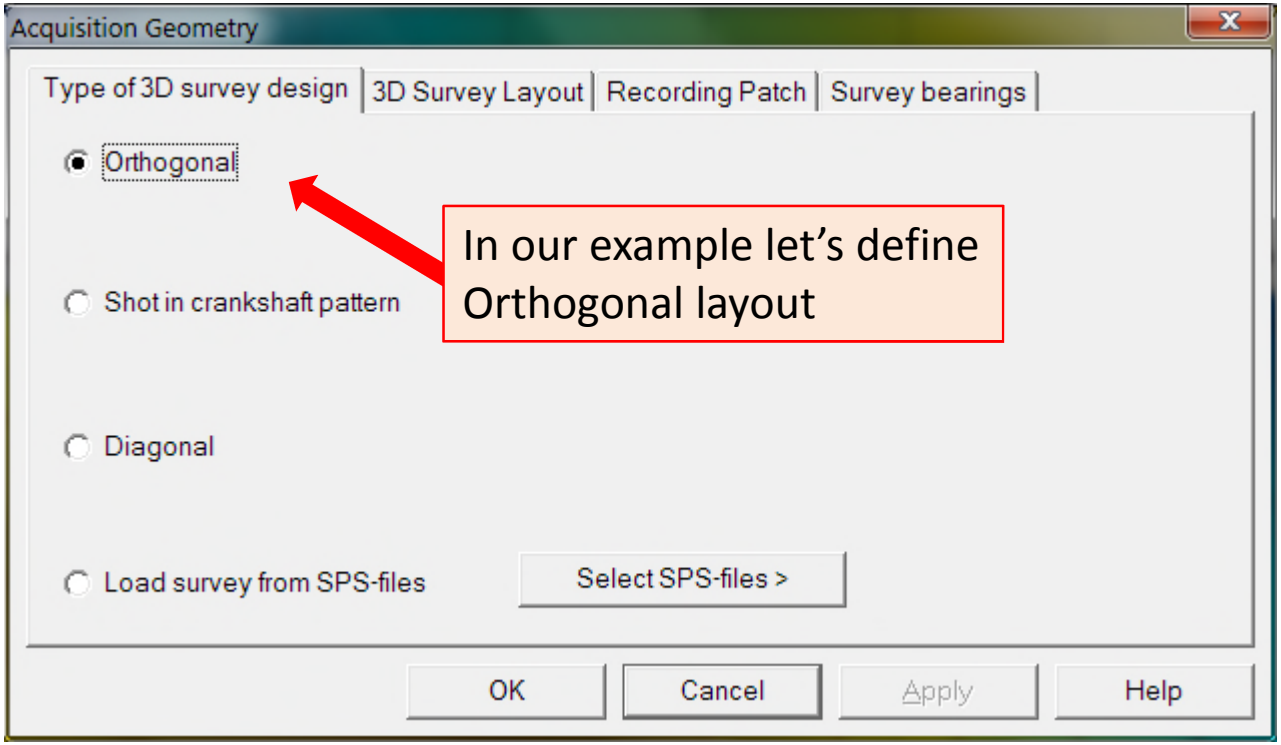
Load survey from SPS files

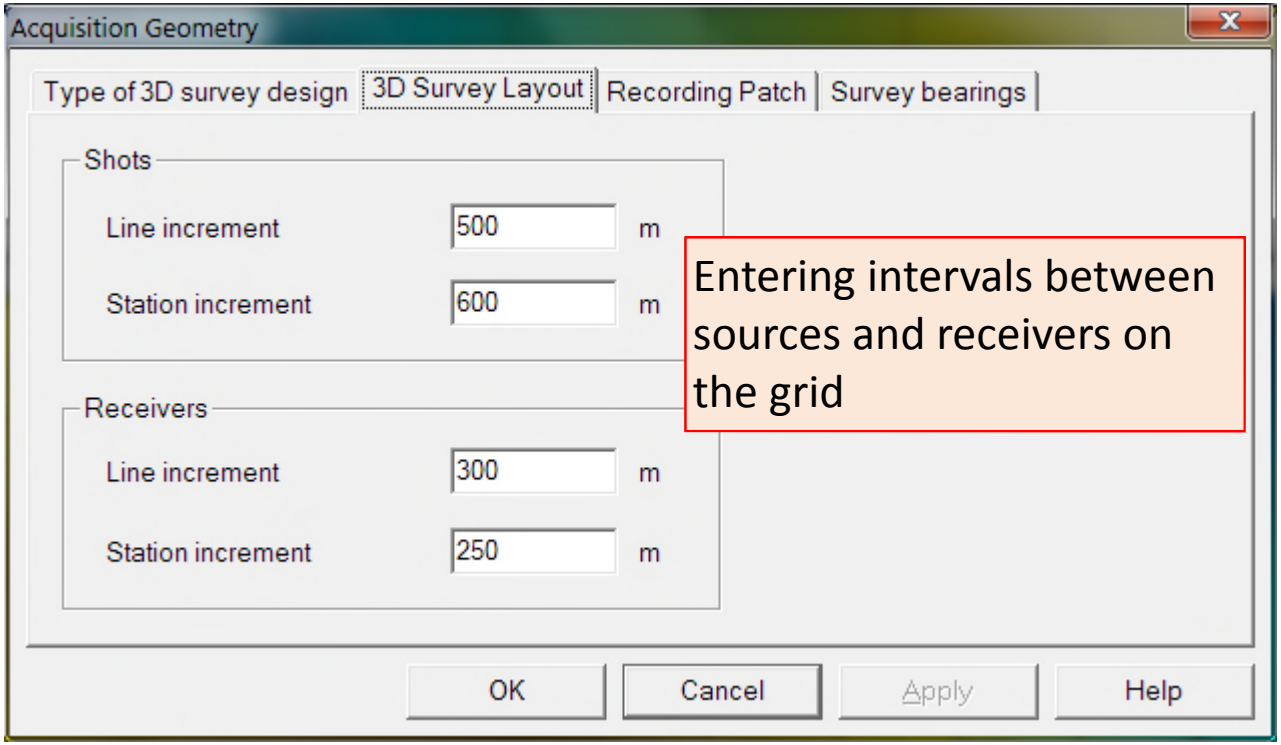


Survey design manipulation

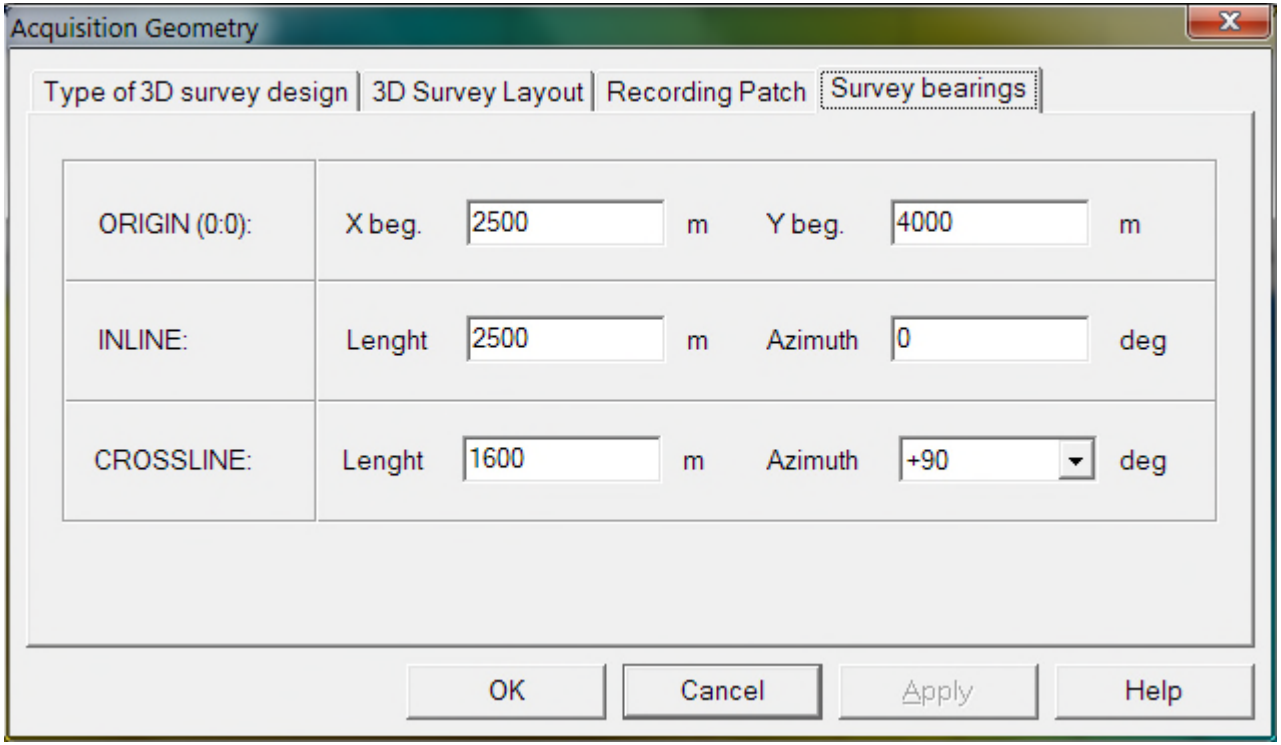



Untitled - TesseralPro
File Database Edit View Model Map Seismic 3D View Run Help
100%
C1s1.grd
3700 3600 3500 3100
Dialog of determining survey layout
Y
X
3300 3400 3500 3600 3700
3200
3100
point: 93 x 30 Bottom title size: 171 x 30 mm

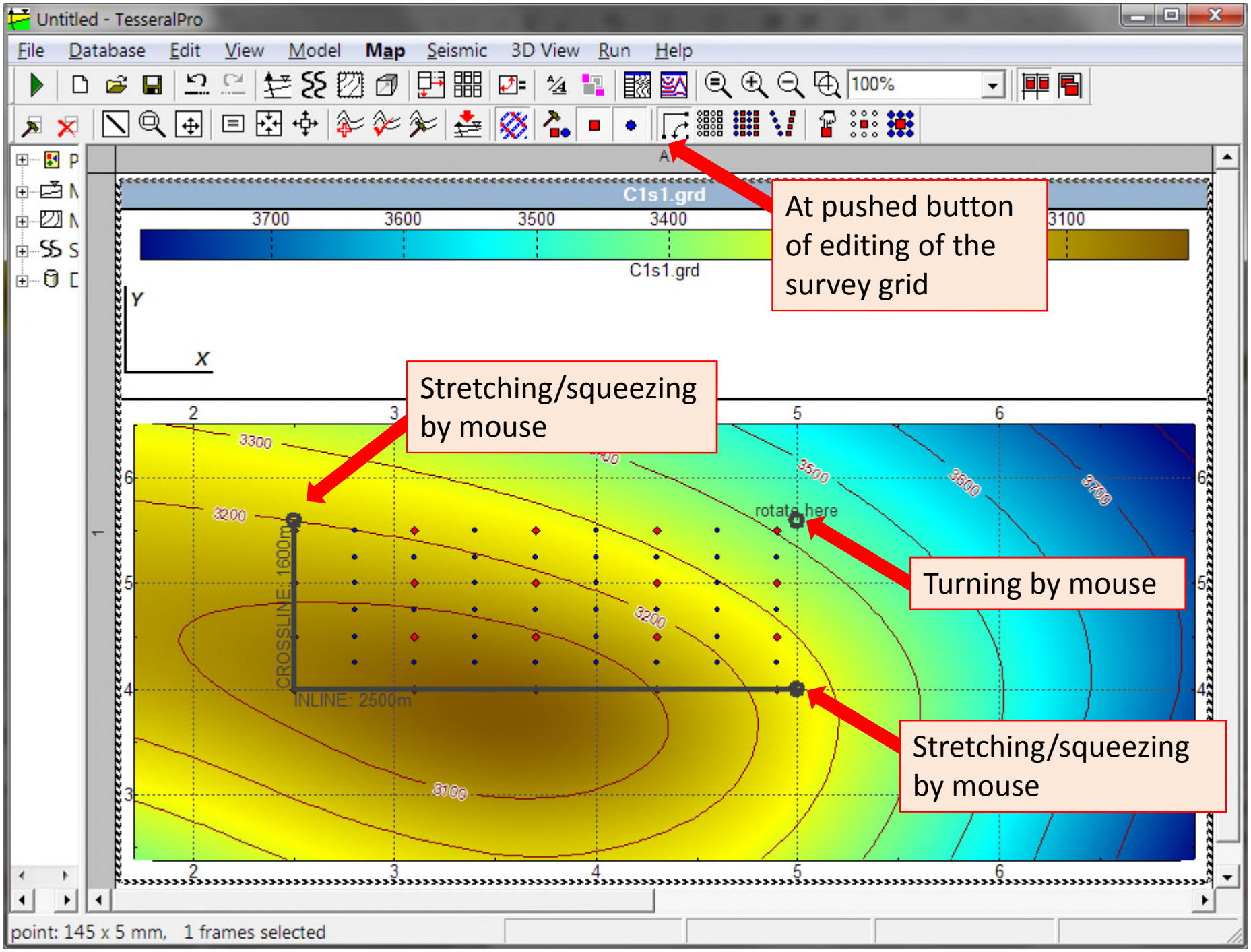

Acquisition Geometry
Type of 3D survey design
3D Survey Layout
Recording Patch
Survey bearings
Orthogonal
Shot in crankshaft pattern
Diagonal
Load survey from SPS-files
Select SPS-files >
In our example let's define Orthogonal layout
OK
Cancel
Apply
Help

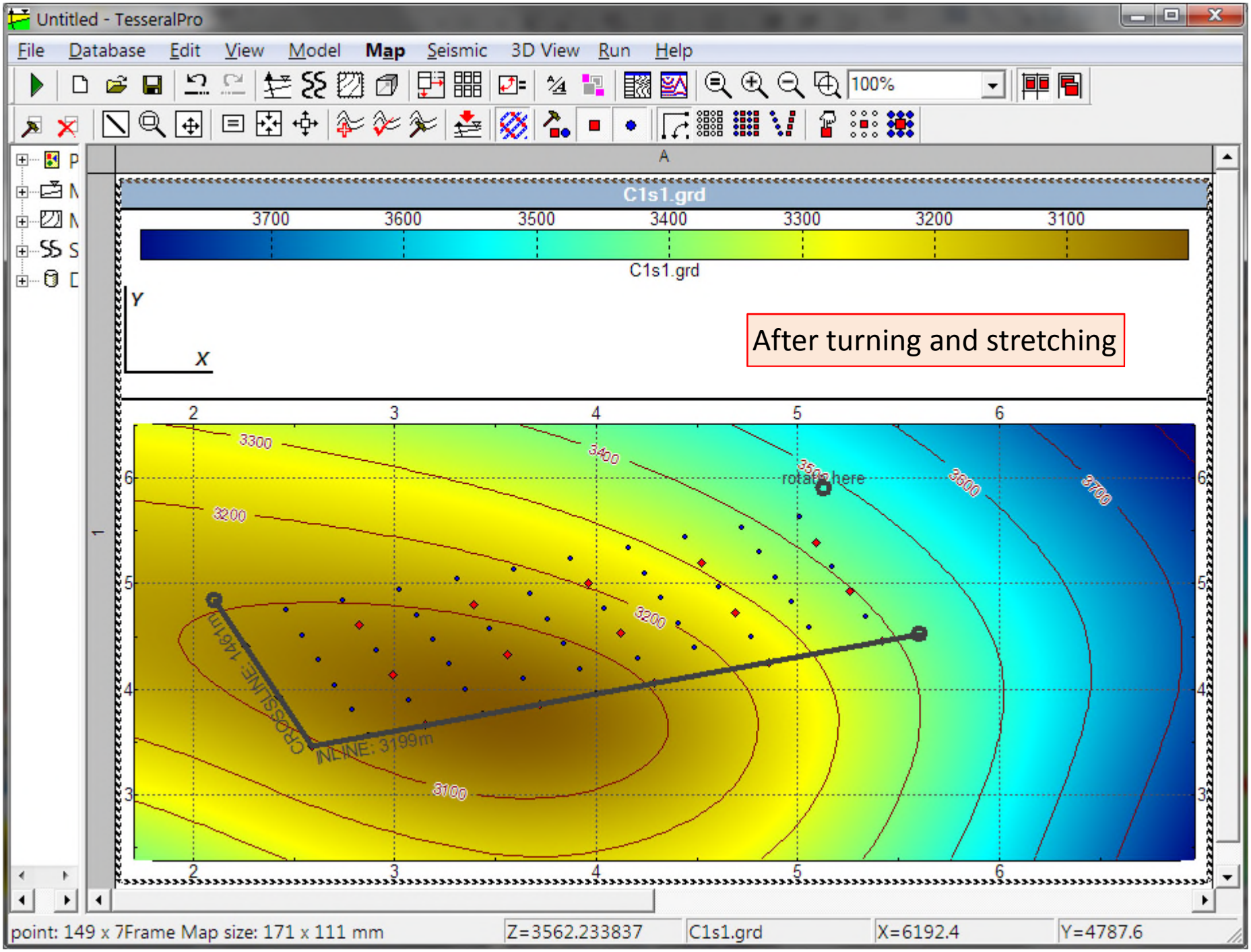


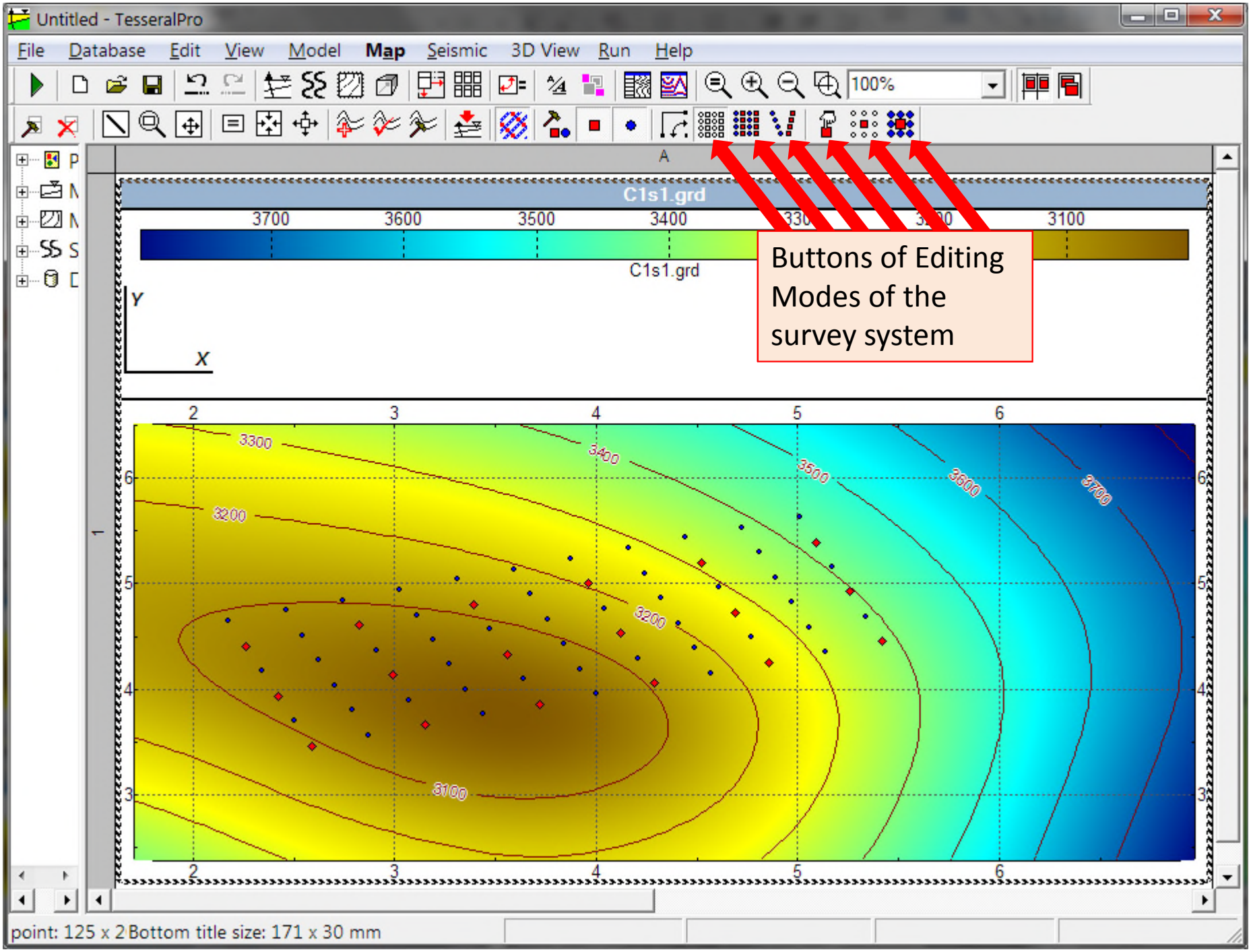
Entering intervals between sources and receivers on the grid

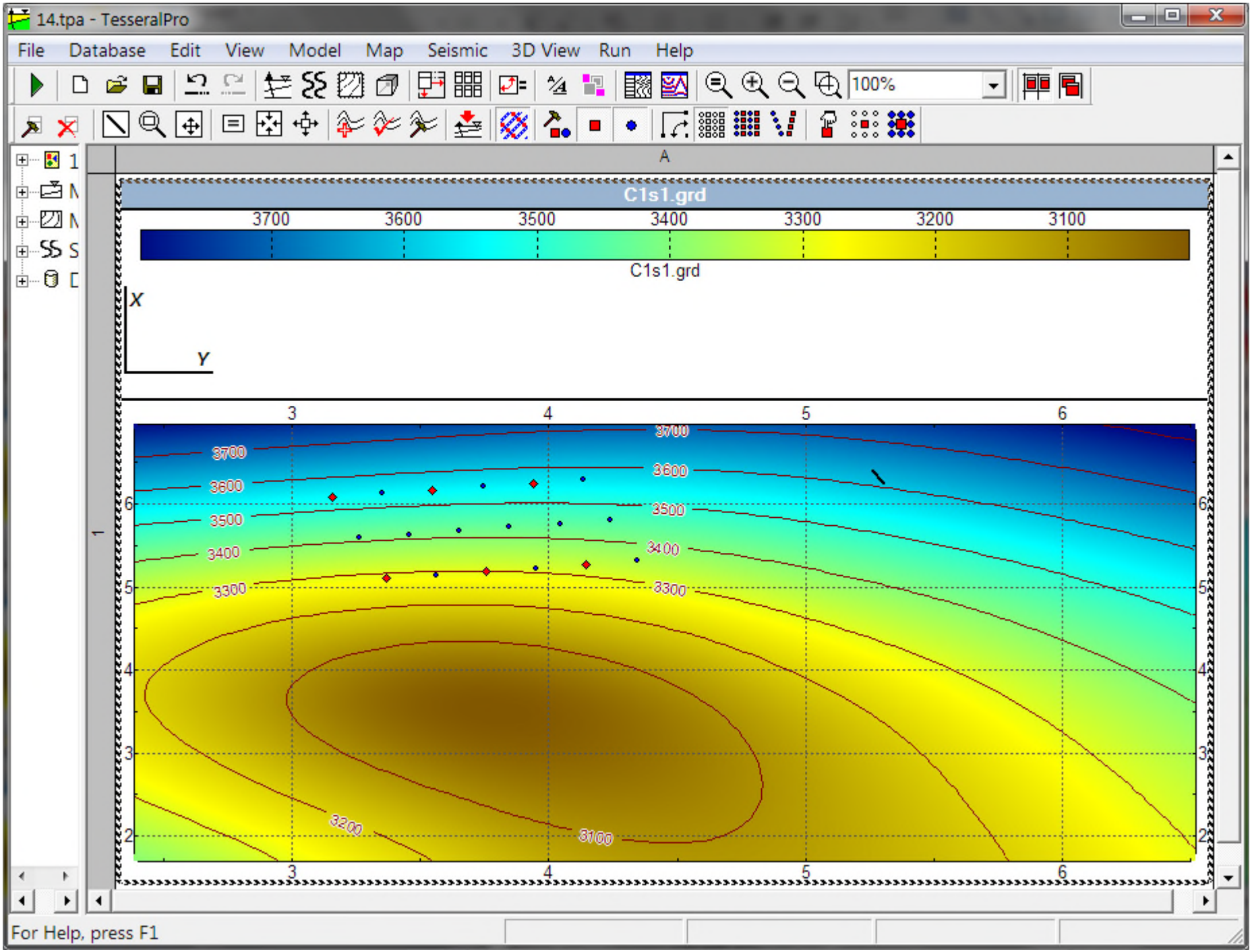


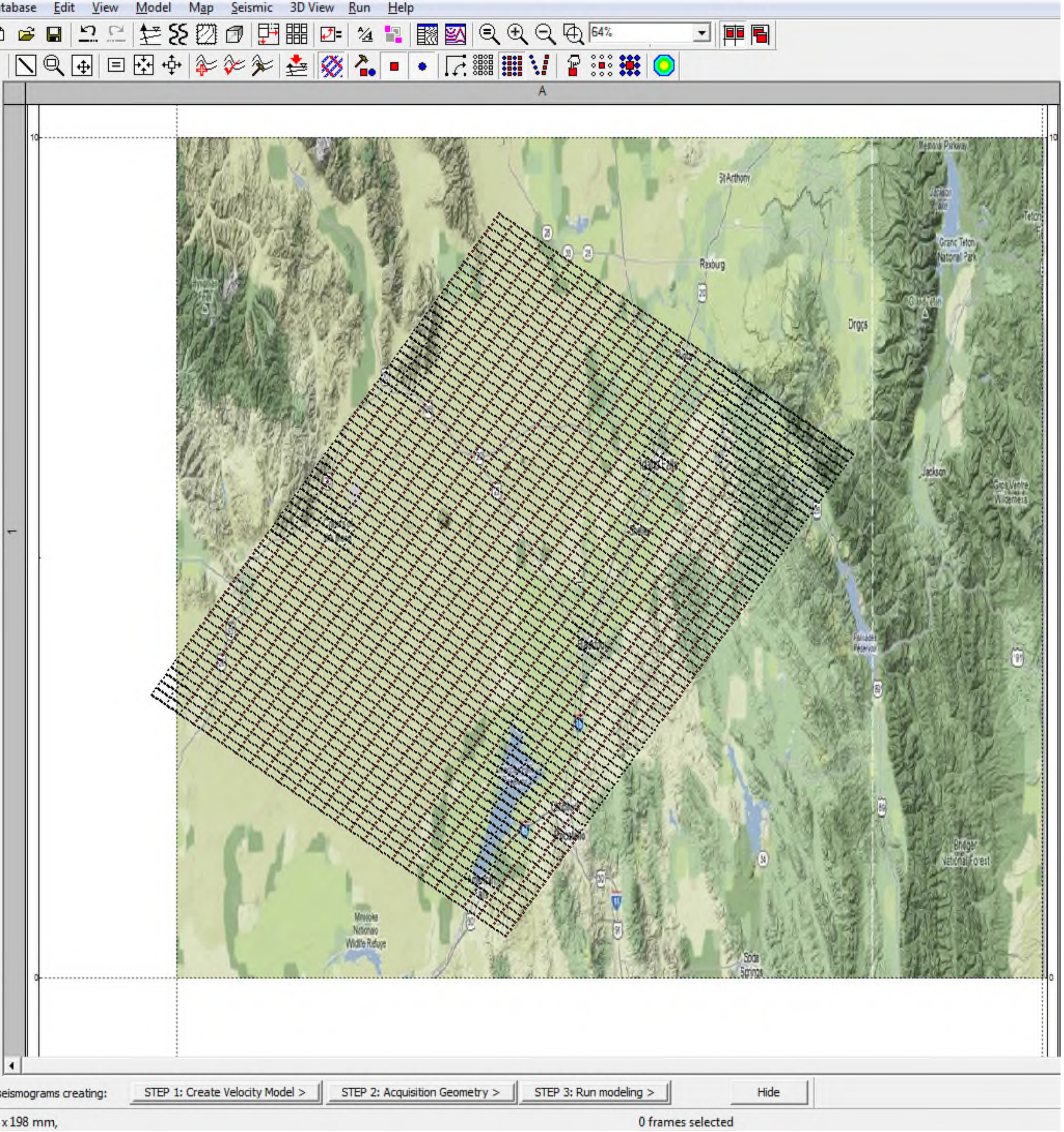
The starting point and the length and azimuth of the grid location of sources and receivers. These parameters can be edited interactively


Untitled - TesseralPro
File Database Edit View Model Map Seismic 3D View Run Help
100%
C1s1.grd
3700 3600 3500 3400 3100
C1s1.grd
Y
X
At pushed button of editing of the survey grid
Stretching/squeezing by mouse
rotate here
Turning by mouse
Stretching/squeezing by mouse
CROSSLINE: 1600m
INLINE: 2500m
3300
3200
3500
3600
3700
3100
point: 145 x 5 mm, 1 frames selected

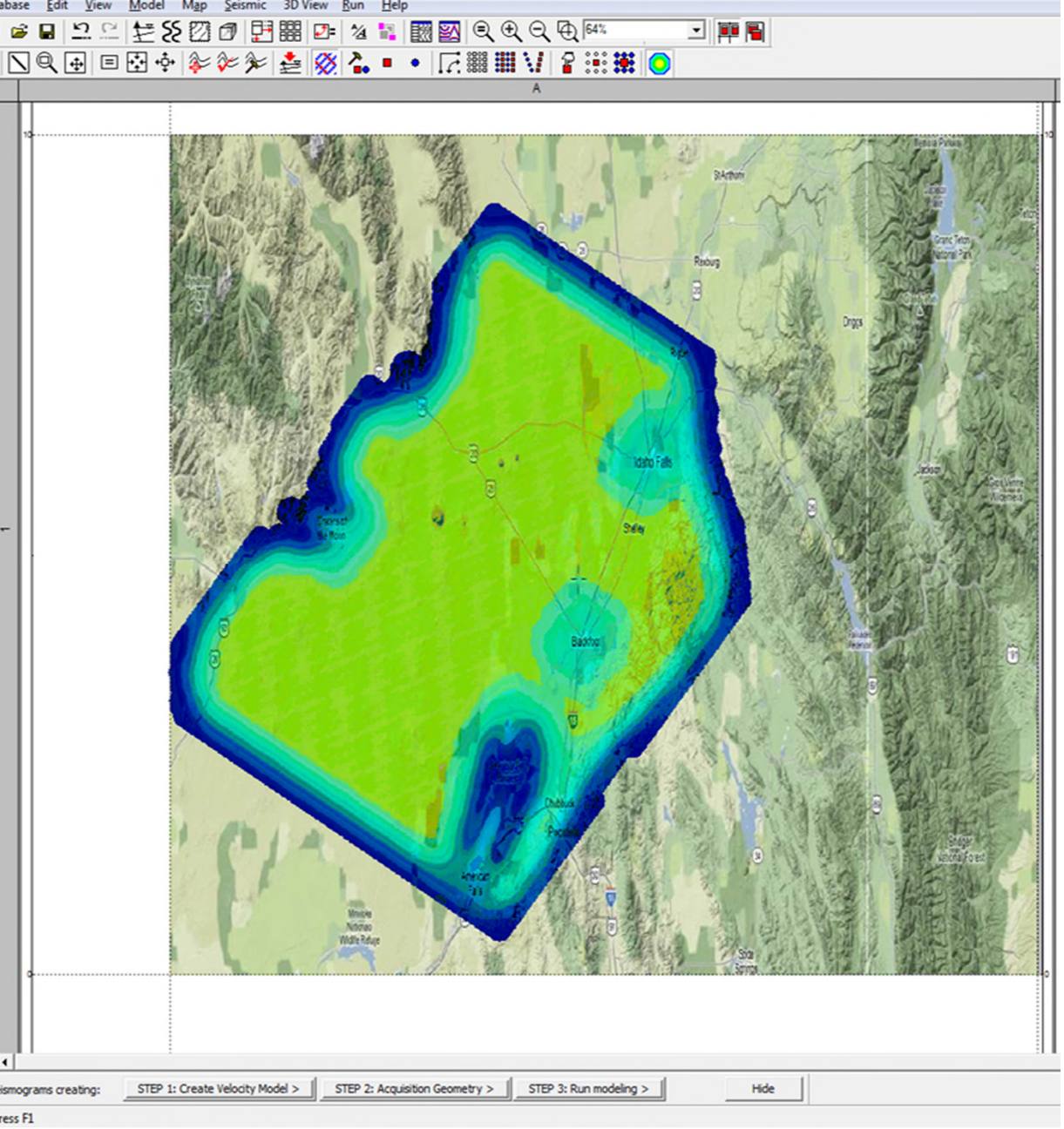

Untitled - TesseralPro
File Database Edit View Model Map Seismic 3D View Run Help
100%
C1s1.grd
3700 3600 3500 3400 3300 3200 3100
C1s1.grd
Y
X
After turning and stretching
rotate here
CROSSLINE: 1461m
INLINE: 3199m
point: 149 x 7Frame Map size: 171 x 111 mm
Z=3562.233837
C1s1.grd
X=6192.4
Y=4787.6


Untitled - TesseralPro
File Database Edit View Model Map Seismic 3D View Run Help
100%
C1s1.grd
3700 3600 3500 3400 3100
C1s1.grd
Y
X
Buttons of Editing Modes of the survey system
3300 3400 3500 3600 3700
3200
3100
point: 125 x 2 Bottom title size: 171 x 30 mm

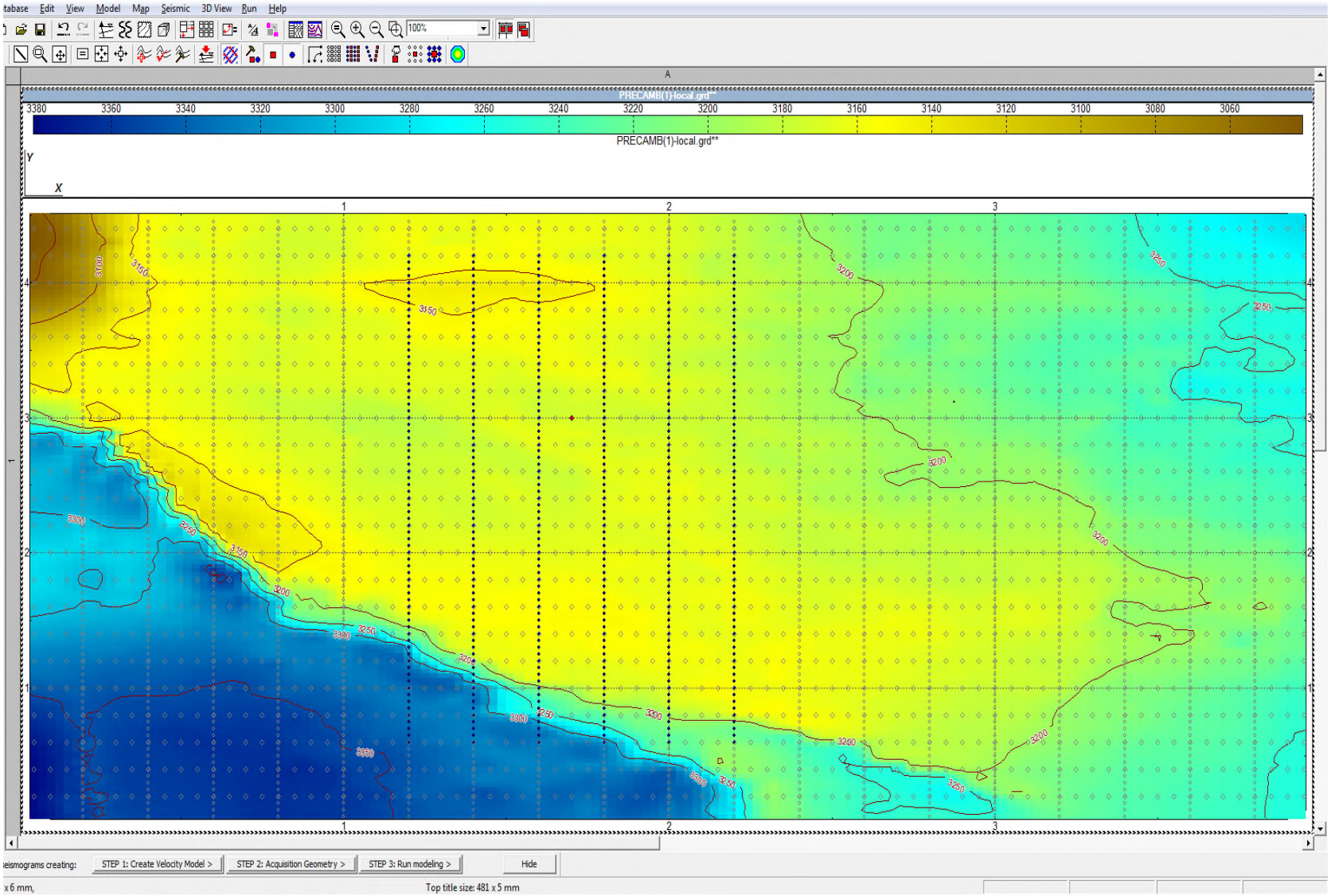

14.tpa - TesseralPro
File
Database
Edit
View
Model
Map
Seismic
3D View
Run
Help
100%
A
C1s1.grd
3700
3600
3500
3400
3300
3200
3100
C1s1.grd
X
Y
1
3
4
5
6
2
For Help, press F1



Using Topographic plan it is possible to overlay it with desired 3D Survey Planning Map, correct number, direction and distance between In-Lines and Cross-lines; edit positions of Shot and Receiver Stations.



Calculate Theoretical 3D Survey Fold for picked bin size .



Picked 3D shooting patch.