

Lesson 9: MakeMap3

Objective: This example is to generate a map of formation thickness. The zero thickness region is honored by matching data distribution.

Project Panel:

- Start a new project by clicking on the **File** pull down menu and click **New**
- Click the **Next** button on the lower left.

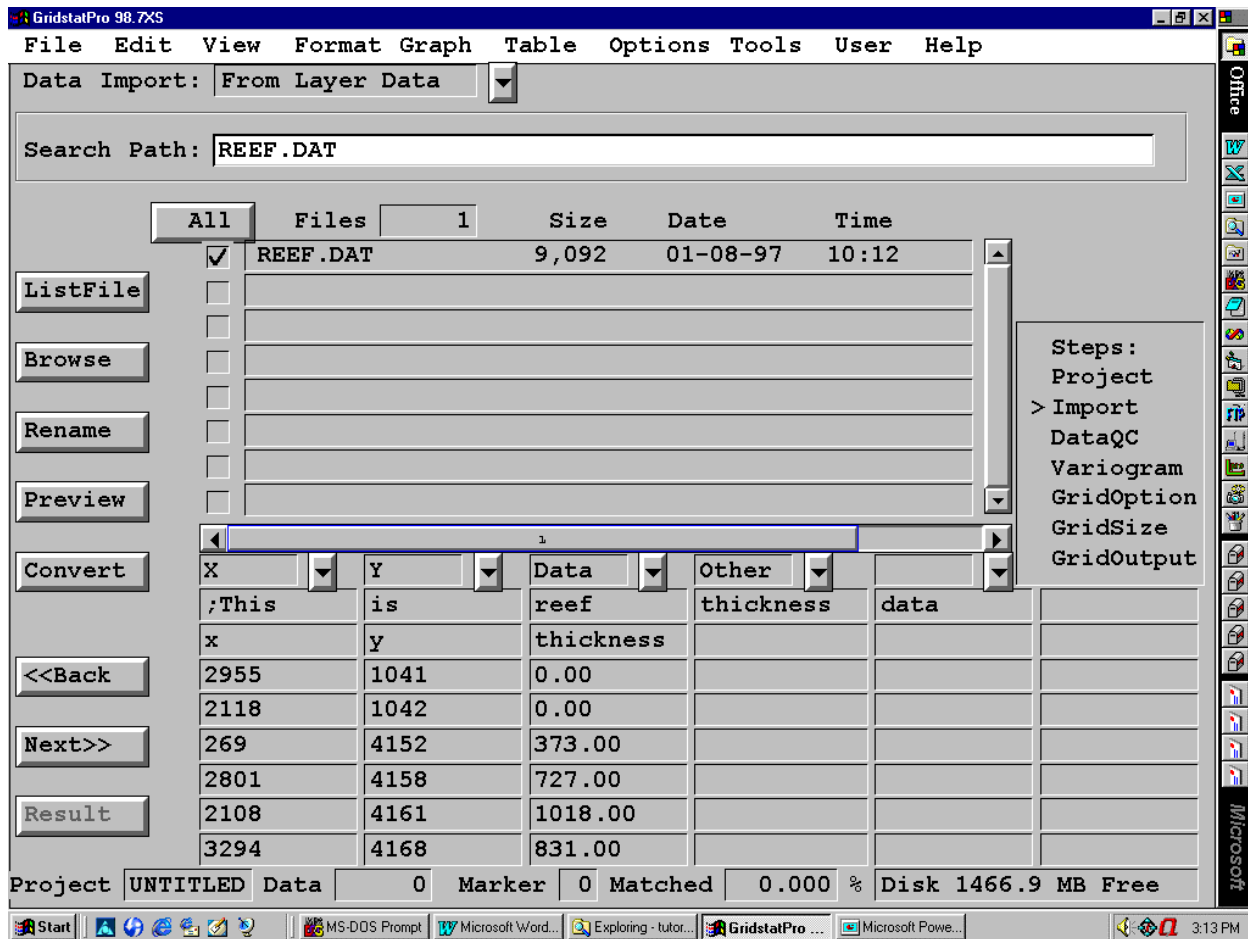
1. Import layer data and data quality control

Import Panel:

- Click the pull down list at the top (initially **Not Defined**), then select **From Layer Data**
- On **Search Path** panel, type in **REEF.DAT**
- Click **ListFile** button, then put check mark on **REEF.DAT**
- Click **Preview** button, then select **As Text**

Select the correct column labels to import

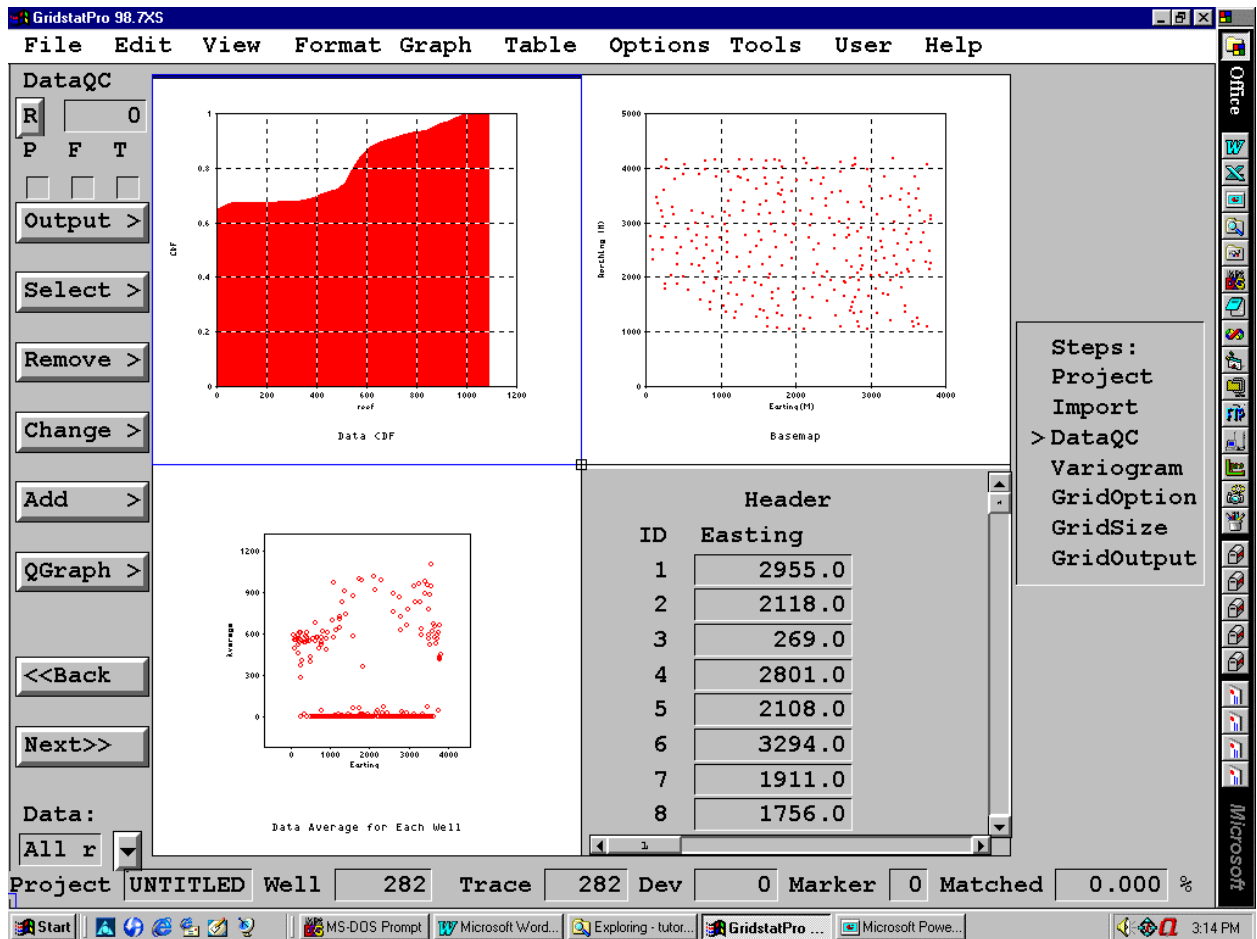
- Change first column next to **Convert** button to **X**
- Change second column to **Y**
- Change third column to **Data**
- Change the fourth column to **Other**



- Click the **Convert** button
- Click **NO** to Save Data as Grid
- Click the **Next** button on the lower left

DataQC Panel:

- Select top box on the left
- Click **View** button, then select **1 Graph**
- Click **View** button, then select **4 Graph**
- Click **Graph** button, then select **Data CDF**



Select zero thickness points to see where they are

- Select the bottom left box
- Click **Select** button, then select **Pick Box**
- Move cursor to zoom in at the bottom of graph

The screenshot shows the GridstatPro 98.7x5 software interface. The main window is divided into several sections:

- DataQC:** A control panel on the left with buttons for 'Output', 'Select', 'Remove', 'Change', 'Add', 'QGraph', '<<Back', and 'Next>>'. It also has a 'Data:' dropdown menu currently set to 'All r'.
- Data <DBF:** A plot showing a red shaded area representing data distribution over a 'roof' axis (0 to 1200).
- BaseMap:** A scatter plot showing 'Welling ID' (0 to 5000) versus 'Easting (ft)' (0 to 4000).
- Data Average for Each Well:** A scatter plot showing 'Average' (0 to 1200) versus 'Easting' (0 to 4000).
- Header Table:** A table with columns 'ID' and 'Easting' containing the following data:

ID	Easting
1*	2955.0
2*	2118.0
3	269.0
4	2801.0
5	2108.0
6	3294.0
7*	1911.0
8*	1756.0
- Steps:** A vertical menu on the right with options: Project, Import, >DataQC, Variogram, GridOption, GridSize, GridOutput.
- Status Bar:** Shows 'Project UNTITLED', 'Well 282', 'Trace 282', 'Dev 0', 'Marker 0', 'Matched 0.000 %'.

Remove zero thickness points to see where they are

- Click **Remove** button, then select **Selected**
- Click **OK** to Total Removed Traces : 190

Reset change to recover data

- Click **File**, then select **Reset**, then select **Data**
- Click **Yes** to Reset Changes in Data

ID	Easting
1	2955.0
2	2118.0
3	269.0
4	2801.0
5	2108.0
6	3294.0
7	1911.0
8	1756.0

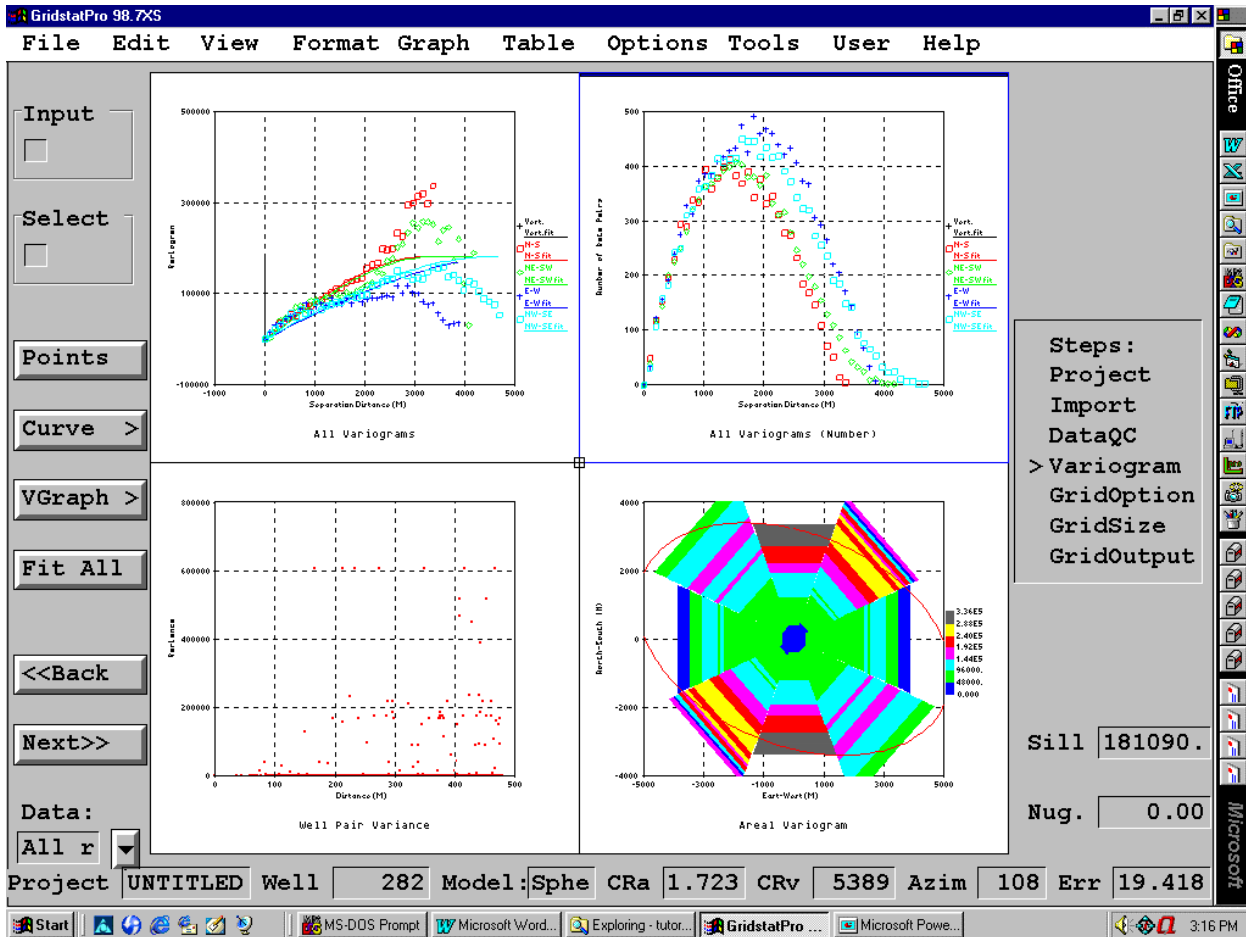
Project UNTITLED Well 282 Trace 282 Dev 0 Marker 0 Matched 0.000 %

- Click the Next button on the lower left

2. Variogram and model fit

Variogram Panel:

- Click Points button
- Click Curve button, then select Spherical



- Click the **Next** button on the lower left

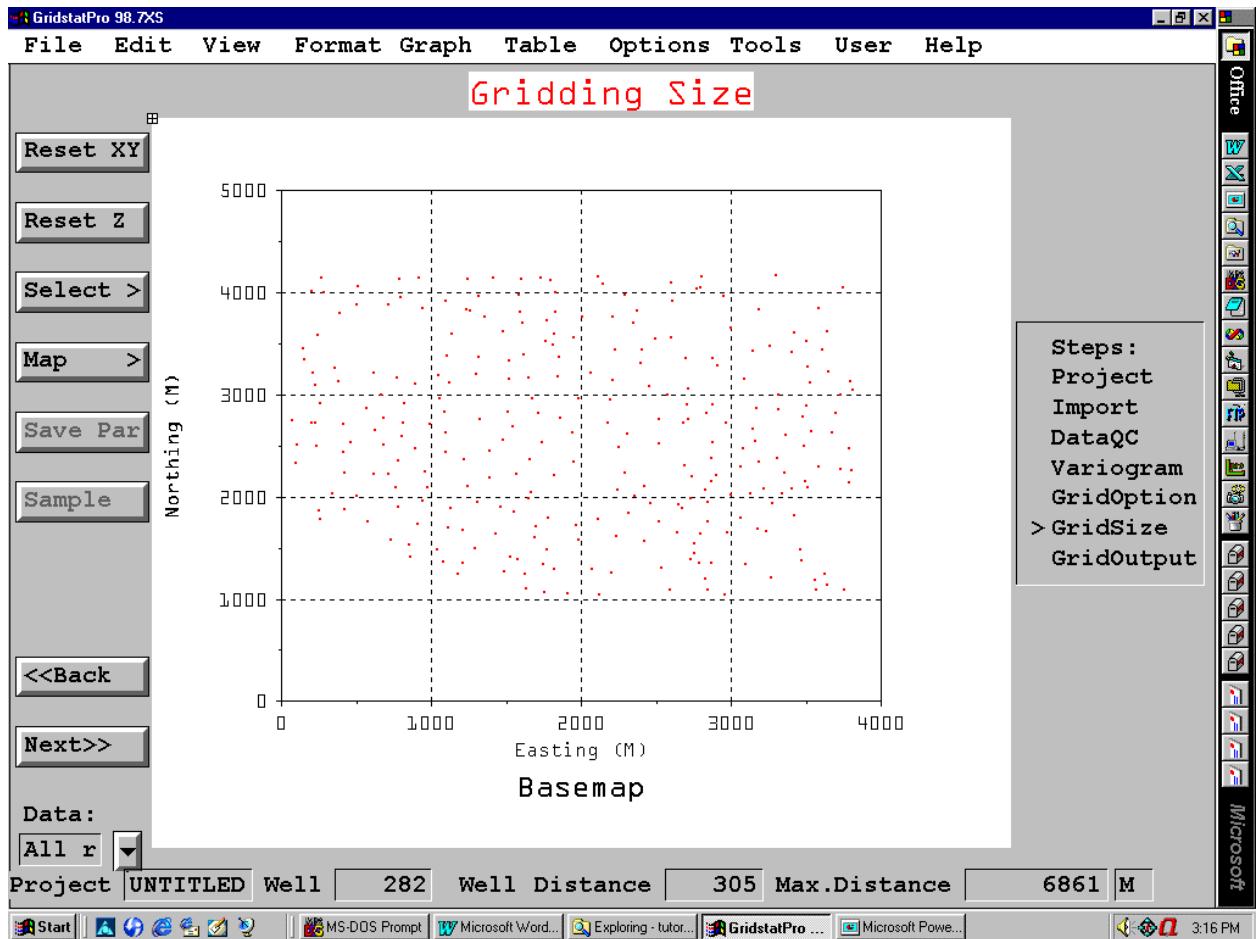
GridOption Panel:

- Click the **Next** button on the lower left

3. Build 2D model by Kriging

GridSize Panel:

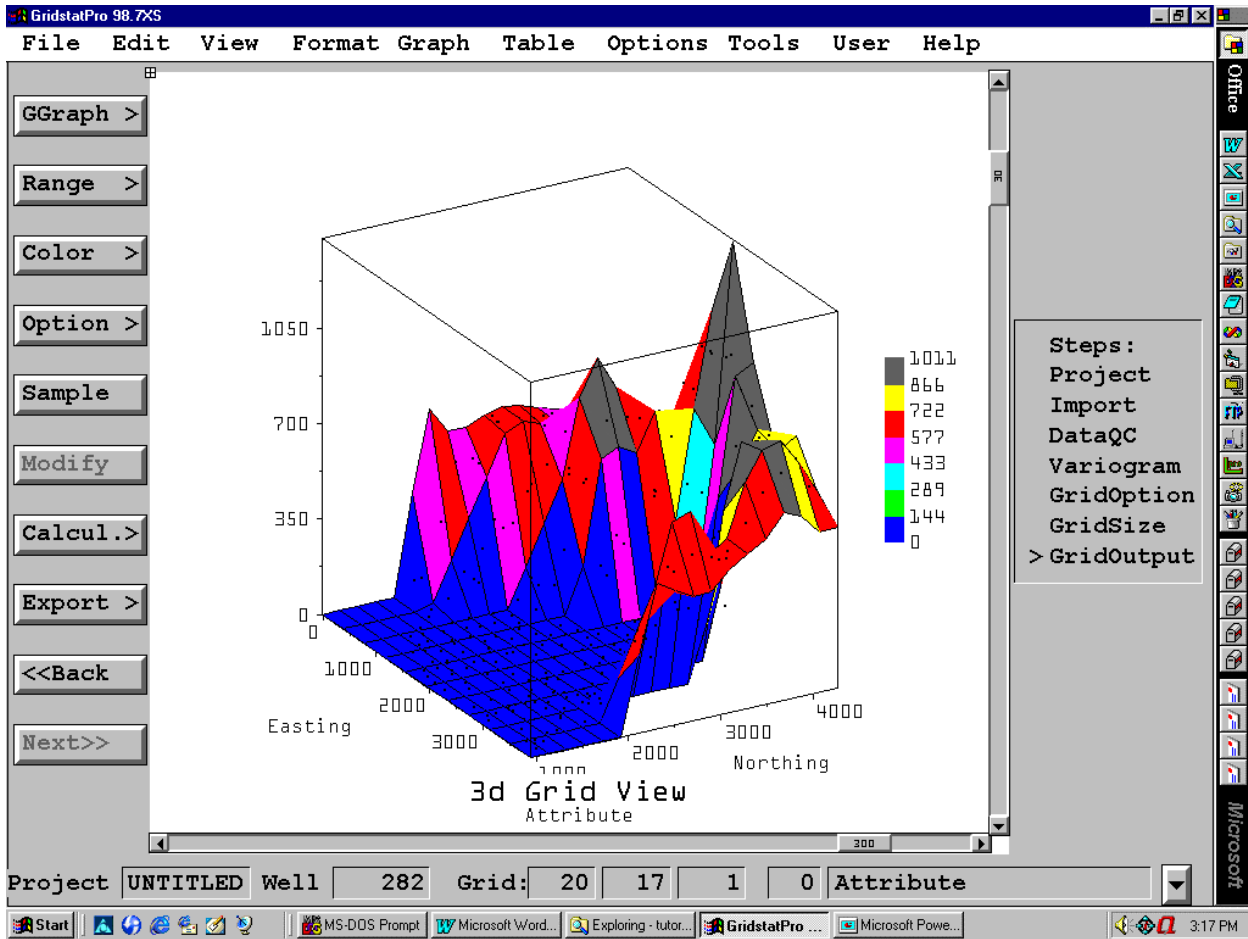
- Change row **X**, column **Inc** to 200
- Change row **Y**, column **Inc** to 200
- Click **Start**
- Click **View** button, then select **1 Graph**



- Click the Next button on the lower left

GridOutput Panel:

- Click GGraph button, the select 3D View
- Click View button, then select 1 Graph



- Click **Range** button, then select **Finest**

