

Geostatistics

Why use it?

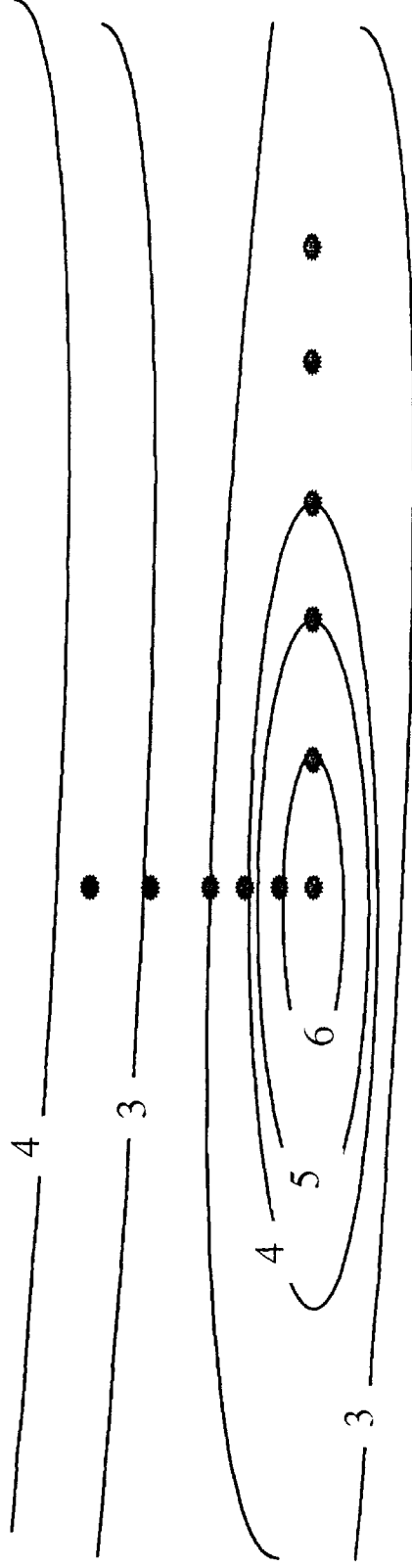
- Conventional geologic models often give unrealistically simple flow geometry's for reservoir simulation.
- Measures uncertainty

Geostatistics

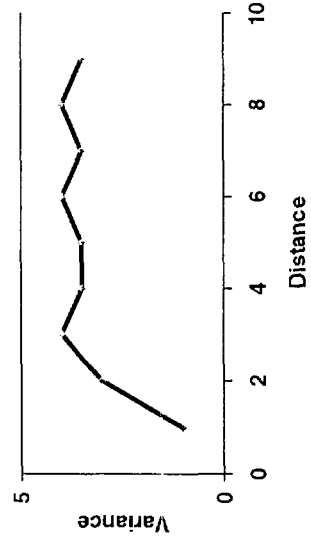
How does it work?

- Combines hard data, variogram, and the raw data statistics to distribute properties between data points in 3 dimensions.

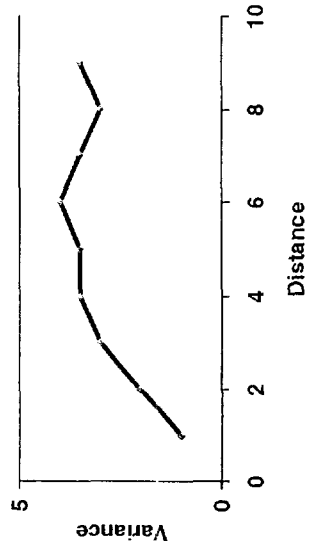
Variogram



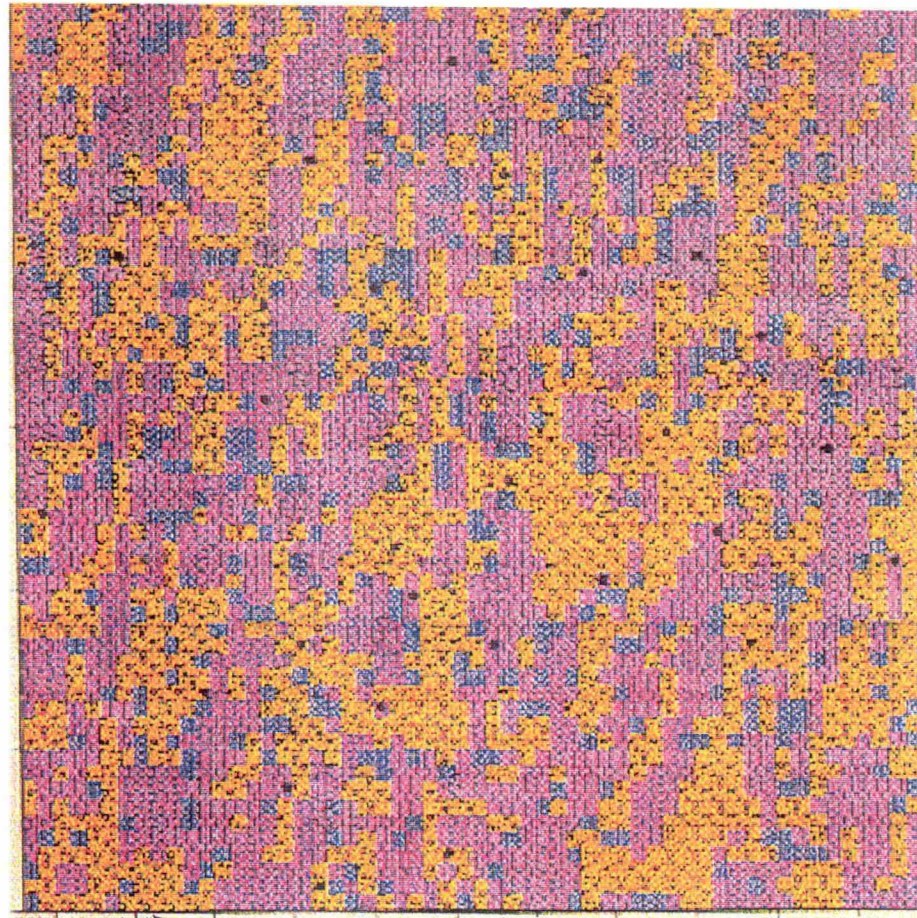
Variogram (Dip)



Variogram (Strike)



Menefee Map View Geostatistical Model



 Sandstone
 Shale/Siltstone

1 ft slice from 3D
model created using
Heresim Software

3 Miles

Menefee Cross Section

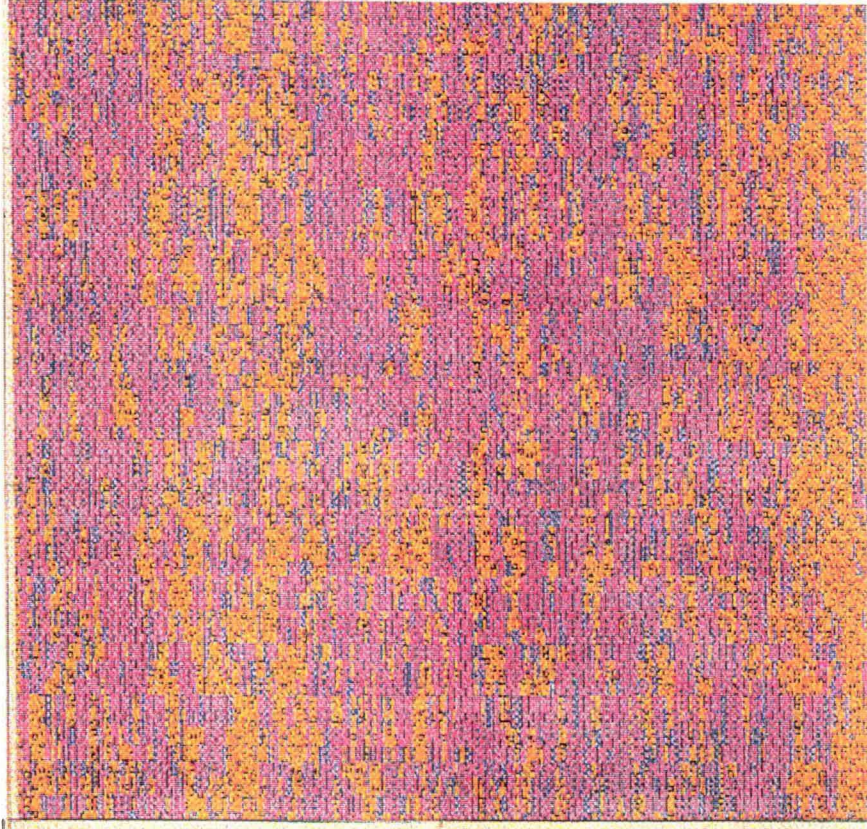
Geostatistical Model

Cliff House

*White
Point
Menefee*

 Sandstone
 Shale/Siltstone

← ~300 ft →



Point Lookout

3 Miles

→