Open Pit Mining



Open pit exposing diamond gravel



Oranjemund diamond mine S.



Miners Search for Ore

• A rock containing valuable minerals



Ore may not be obvious

- Not all ore is high grade
- Sometimes nothing of value is visible
- You may still be sitting on a fortune
- Geochemical testing and an understand of what rock could potentially have ore are important for exploration



Illustration by Christina Nicholas

Cyanide disaster Baia Mare, northern Romania, Feb. 2000





Illustration by Christina Nicholas

Underground Mining



Dangers

- Mine Collapse
- Rock blasts
- Suffocation
- Heat exhaustion
- Silicosis
- flooding



Why underground?



Getting the ore

