

CONTENT GUIDE FOR EOSC118

Mining Technology Website

Online source of major mining projects and industry news

<http://www.mining-technology.com/>

This website contains abundant information about the mining and mineral exploration industry. Of particular interest are the project synopsis' that quickly describe a number of different mines across the globe. We'll compare three large sources of copper for Canada (Highland Valley), North America (Bingham Canyon) and the world (Grassberg).

Highland Valley

<http://www.mining-technology.com/projects/highland/>

Bingham Canyon

<http://www.mining-technology.com/projects/ingham/>

Grassberg

<http://www.mining-technology.com/projects/grasbergopenpit/>

As usual, use the discussion board on Connect to pose questions, since questions that you have are probably being thought by another one of your fellow students.

Use the following questions to help you through the article:

1. For each of these mines, which is the primary commodity?
2. What are the primary mineral types in these important deposits?
3. Do they all only mine one metal, or many?
4. These three important copper producers belong to what kind of ore deposit?
5. What are the relative sizes of reserve bases?
6. Are these large deposits being mined by open pit or underground methods?
7. How long are these mines likely to operate for?

Copper

Grassberg and Bingham - sulfide.

Highland - copper-molybdenum
Grassberg - Copper/gold
Bingham - uniform distribution of sulfide, Copper and mo

open pit

Highland - 2019
Grassberg - 2015, underground start soon
Bingham - longer, extend for mo

(5) 60-115m - Highland
4100m mountain to 3000m for Grassberg
2.5 miles - Bingham