

Name: \_\_\_\_\_  
Pd: \_\_\_\_\_ Date: \_\_\_\_\_

Chemistry 12  
EQUILIBRIUM Lesson #5  
**Industrial Applications of Equilibrium PLO: E5**

Read page 56 before answering the following.

1. Why was there a push to find a way to synthesize nitrates in the early 1900's?
2. What is the name of the scientist who figured out an alternative source for nitrates?
3. Write down the equation that this scientist used to synthesize nitrates:
4. What problems did he have to overcome in regards to heat with this equilibrium?
5. How did he overcome the above problems?
6. What is the equation used to make "quicklime" CaO from Limestone  $\text{CaCO}_3$  ?
7. Under what conditions can you make the greatest yield of CaO? (in regards to heat and pressure)