## Alaska Mining Industry Update

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#### **Historical Context**

- 1. From late 1800s until World War II mining was Alaska's largest industry with the most jobs.
- 2. From World War II until 1989 effectively no lode (versus placer) mining in Alaska!
- 3. From 1989 to Present continued steady growth.

**Today** – 6 large mines in Alaska; much exploration.

**The Question:** Why is there not more mining today?



### **Mining History Since WW II**

#### At Start of World War II

- Presidential order closed all gold mines
- Needed miners and equipment for war effort

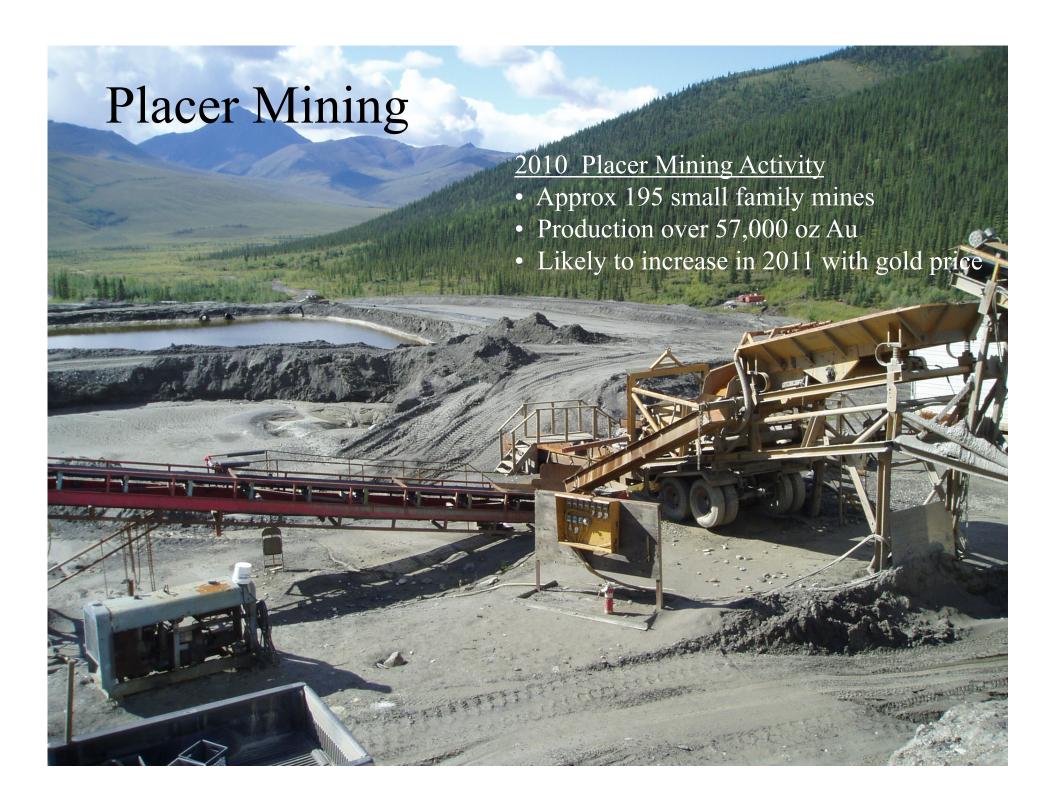
#### **After World War II**

- Some placer mining resumed
- Limited lode **exploration** resumed as metal prices allowed
- Excess base metal production capacity in world
- Gold price fixed but cost of wages and supplies continued to increase
- Land and regulatory uncertainty
- Prudhoe Bay, ANCSA (44m ac), ANILCA (104m ac)

#### From World War II to 1989

- Effectively no lode/hardrock mining, some placer mining, some coal mining
- In 1989 Greens Creek & Red Dog began operating
  - Proved to the world that a major mine could be permitted in Alaska!
  - Proved that all Alaska was not in a Park!

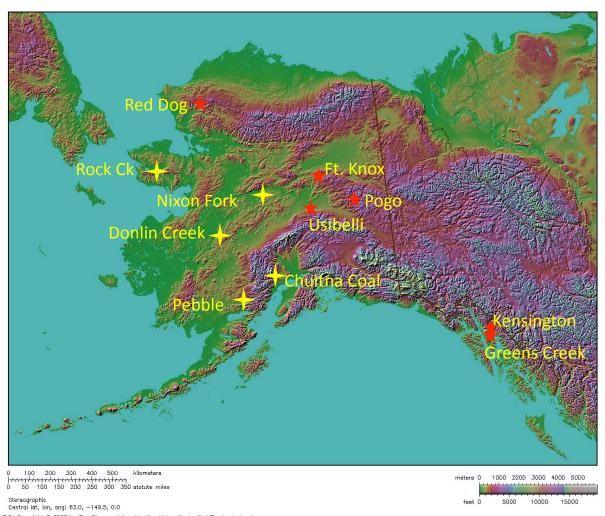




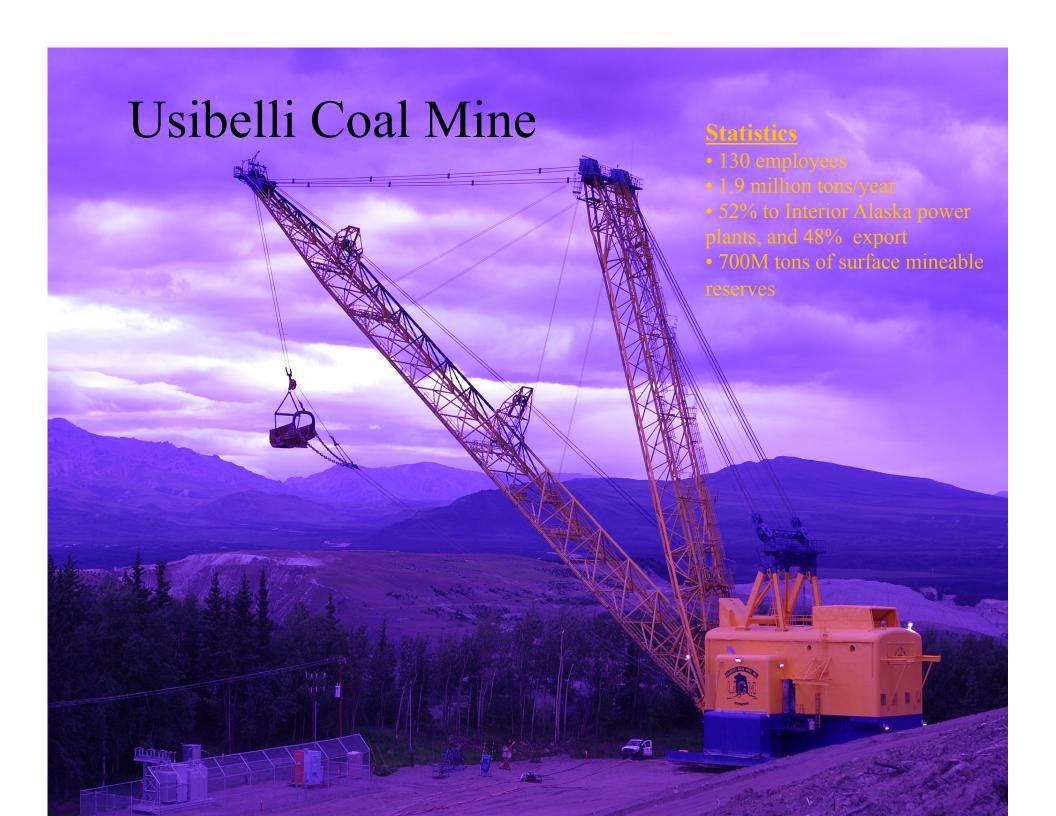
## Alaska Major Mines and Projects

★ Producing mine

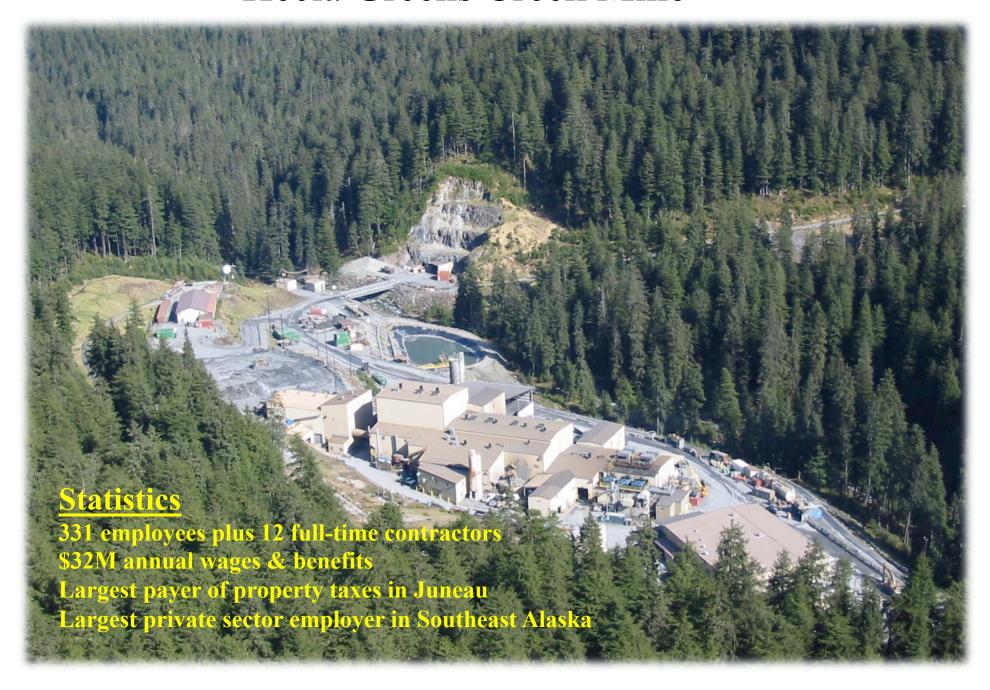
Developing and major exploration projects



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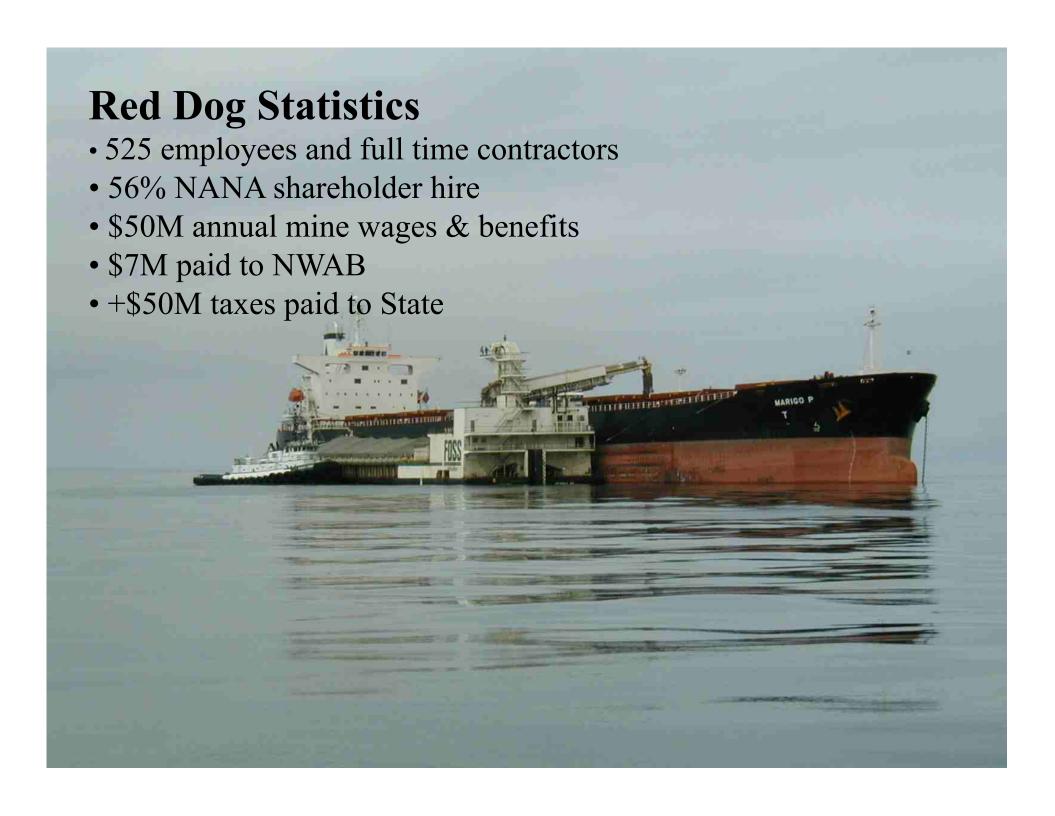


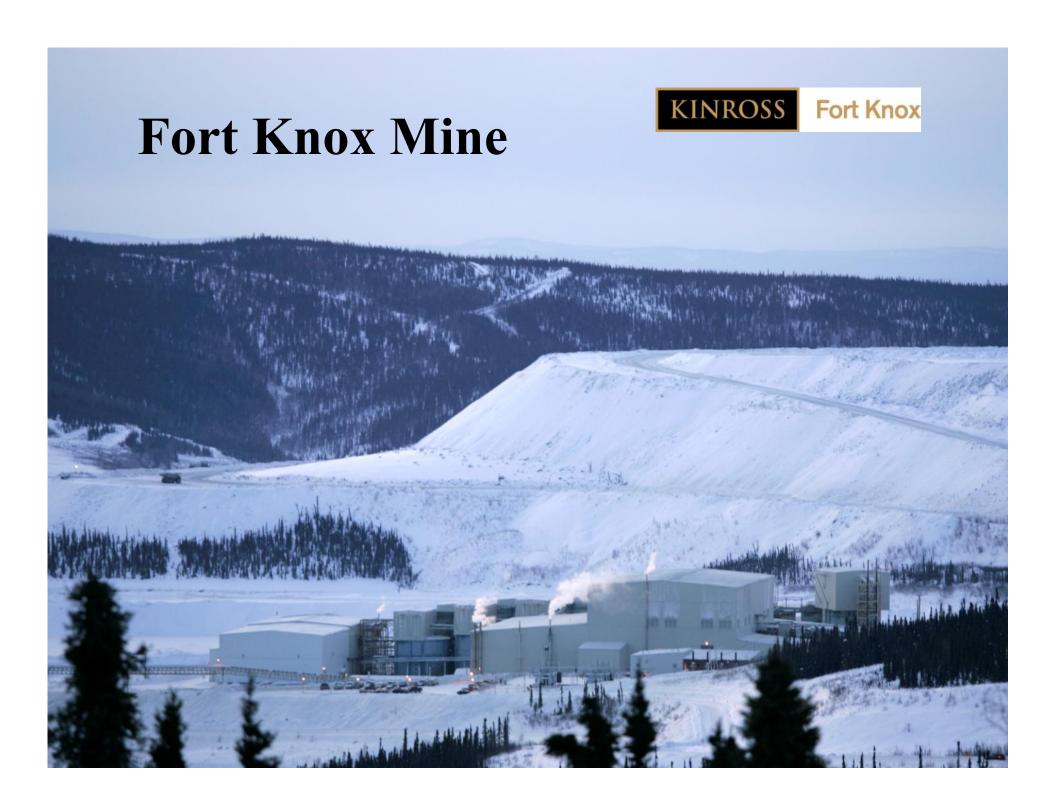
### Hecla Greens Creek Mine

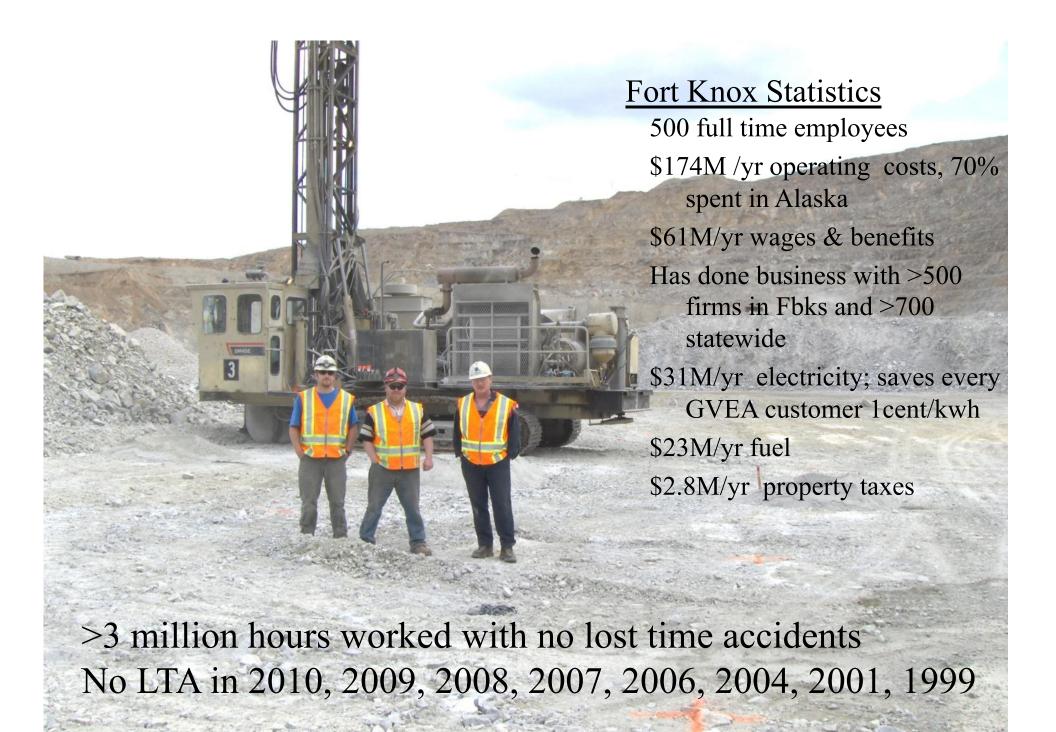


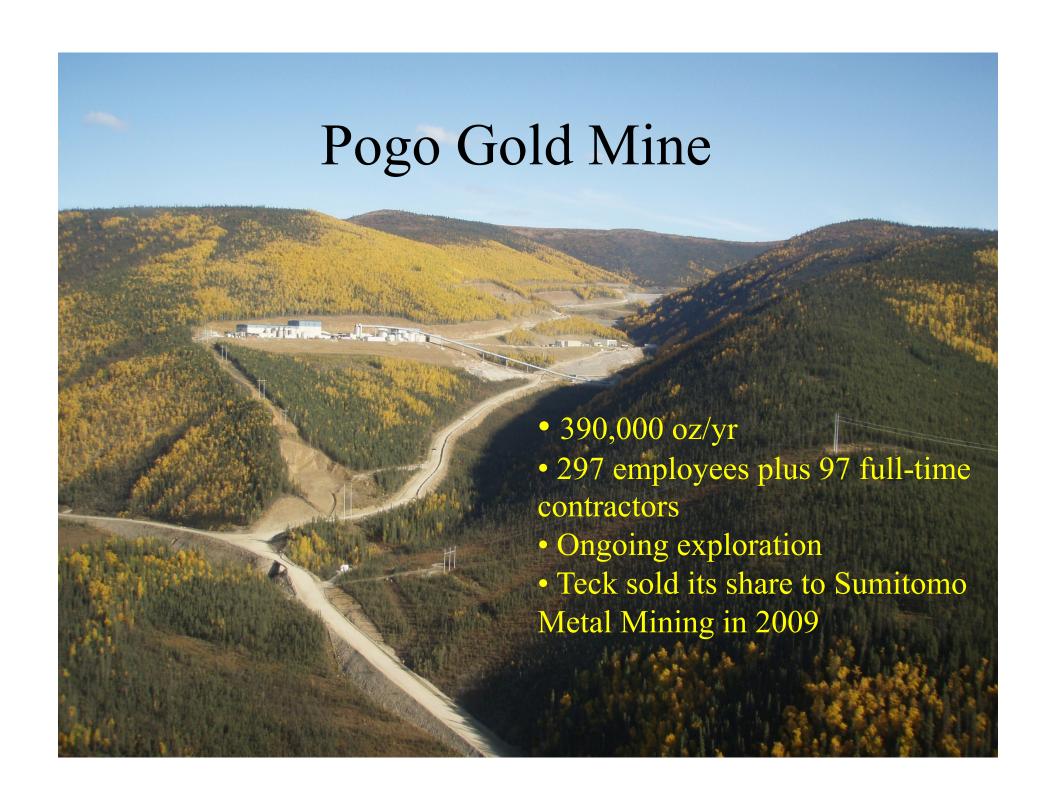
## Red Dog Mine









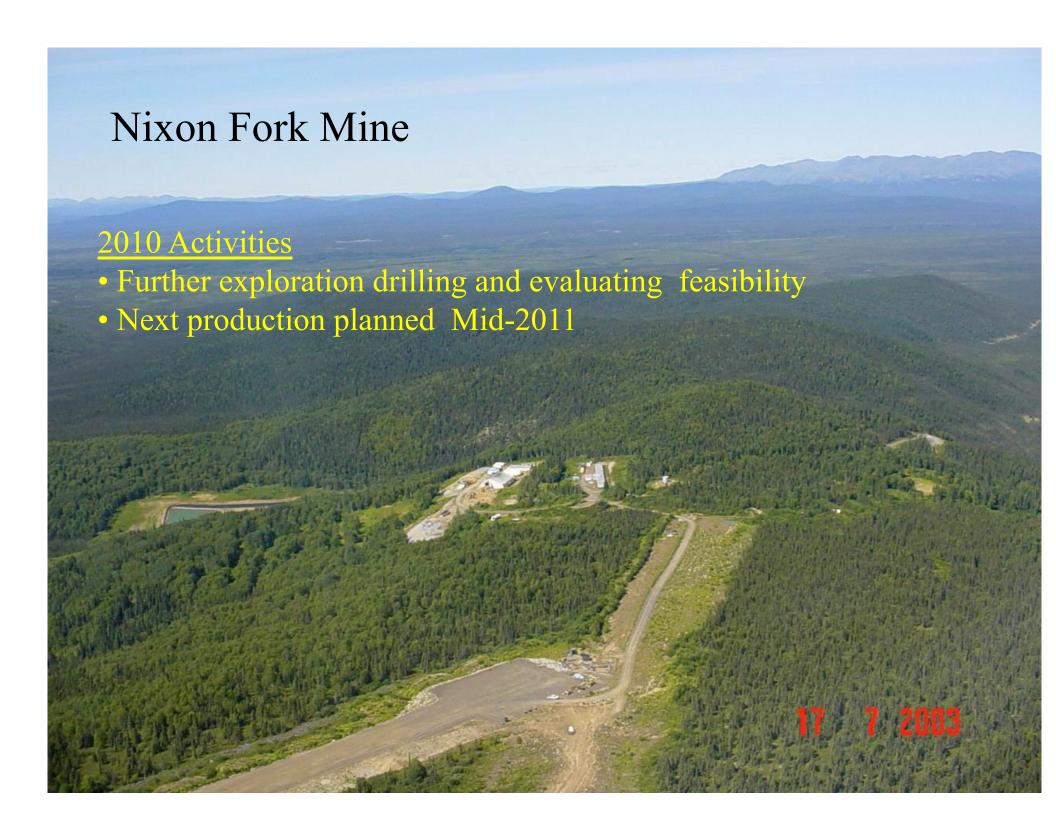






## Mines in Idle Status

- Nixon Fork Fire River Gold
- Rock Creek Alaska Gold/ NovaGold





## Projects in Advanced Exploration and Permitting

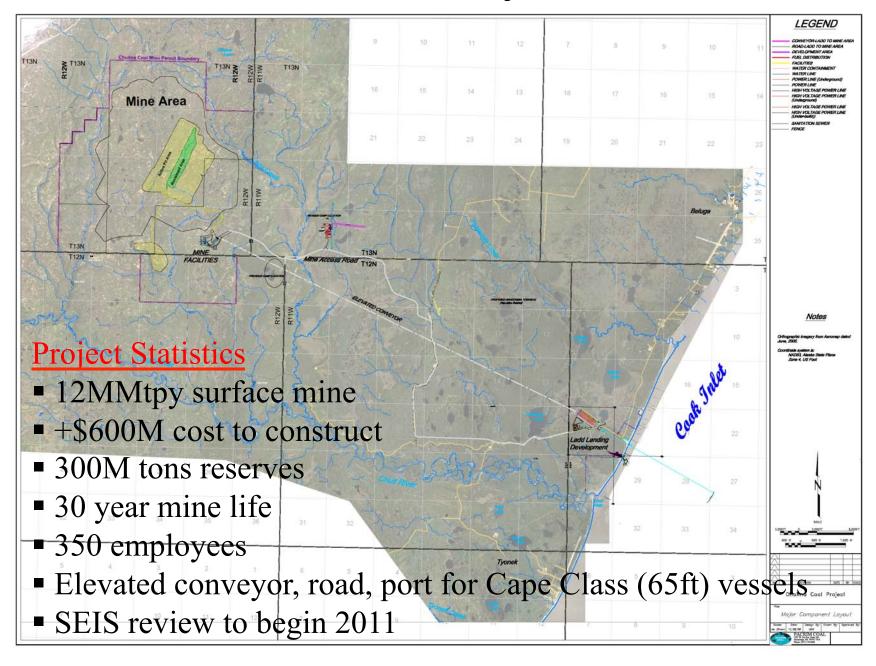
## **Advanced Permitting**

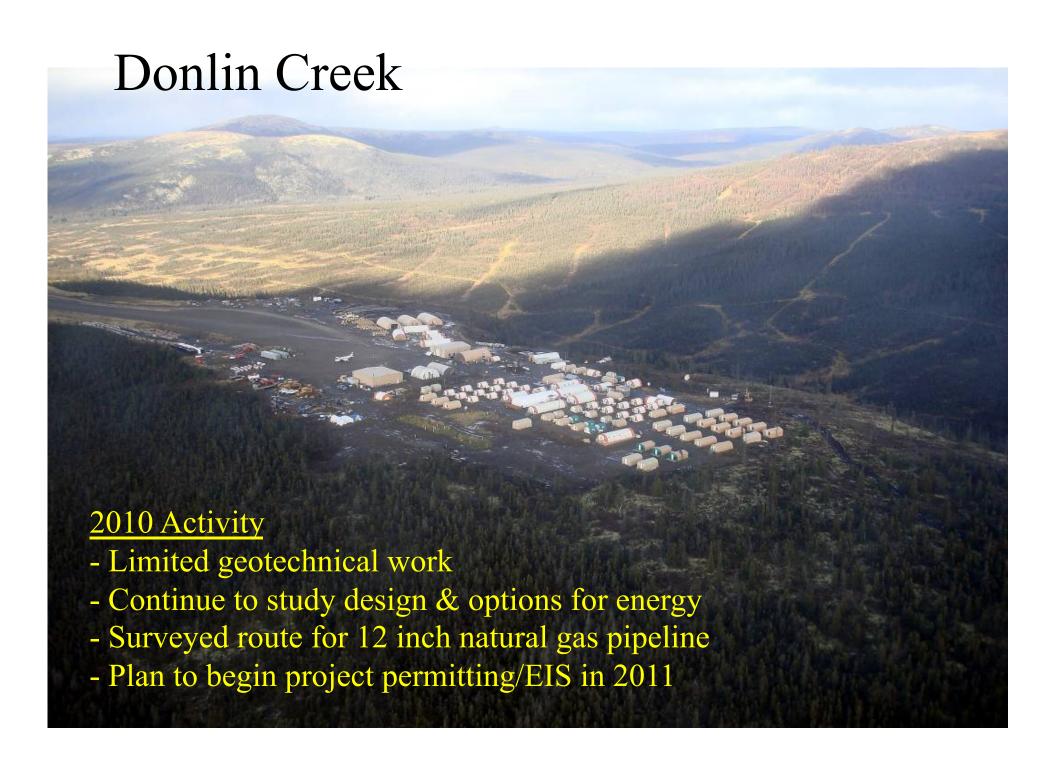
1. Chuitna Coal PACRIM Coal

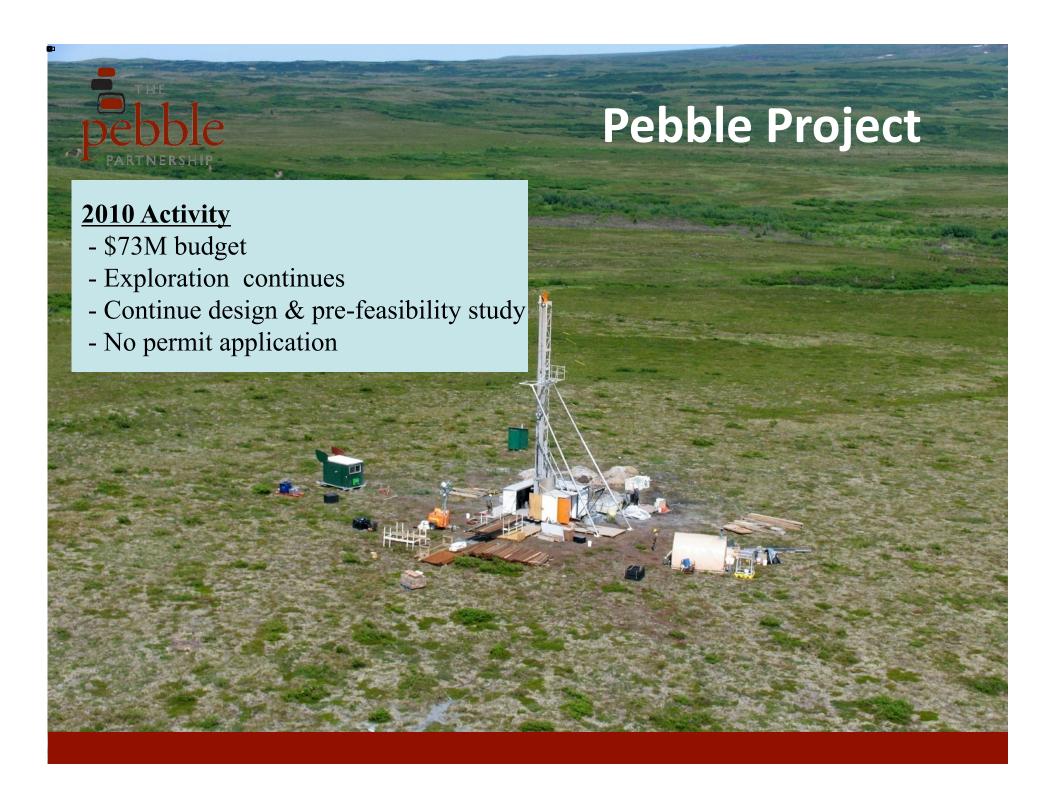
## **Advanced Exploration/Pre-permitting**

- 2. Donlin Creek Barrick/NovaGold JV
- 3. Pebble Partnership NDM/Anglo American JV

## Chuitna Coal Project







## **Major Exploration Projects**

- 30 projects spent >\$1 million each in 2008
- 27 projects spent >\$1 million each in 2009
- Expect similar number in 2010
- Expect higher number in 2011

## Three Example Projects

- Livengood International Tower Hill Mines
- Niblack Heatherdale Resources
- Palmer Constantine Resources







