Current and Future Operations -
Mine Design, Operations, and Closure Conference
May 2012
Every person going home safe and healthy every day.
Success in Safety

- Over 4 yrs without a Lost Time Incident (LTI)
- Over 2 million man hours worked without a LTI
- Marty Johnson selected as a Barrick Safety Champion for 2011
Success in Safety

- No job is worth doing unsafely
  - Everyone has the obligation to stop a task they feel is unsafe

- Talk about it
  - Discuss the safety implications of a task with a coworker

Courageous Leadership
Mineral Hill Pit / 5B Optimized

- 5B Optimized Layback started in June 2008 and extends mine life to 2015
- Mined 78 million tons through December 2011
  - Approximately 13 million tons remain (8.5 mil tons of ore)
- Reached ore body in Nov. 2011
- Mining will be complete in Q2 2013
- Milling complete Q1 2015
East Area Pit

- Mining began Dec. 2010
- Completed Nov. 2011
- 3,890,000 tons mined
- 2,415,000 tons of ore – 0.6:1 Strip Ratio
- Allowed mill to restart Jan. 2011
Off-Site Ore

- Golden Sunlight has received ore from smaller gold mining ventures that can not construct an ore processing facility, for several years now with deliveries increasing in 2011.

- Several advantages include: relatively high grade supplemental ore to mill feed, employment opportunities, and local tax revenue.

- In 2011, received ore from 10 different suppliers.

- Examples:
  - Black Friday
  - Drumlummon
  - Mammoth
  - Coronado
  - Elkhorn
Off-Site Ore
Environmental benefits

- Reclamation for abandoned mines
  - Rochester Tails in 2008
  - Sunlight and Sunny Corner Dumps in 2008 and 2009
- Limits and/or eliminates environmental impacts to surface and ground water
Exploration

- 60,000 Ft of exploration drilling in 2011. Same amount proposed in 2012
- North Area - estimated 1.25M tons of ore; 43,280 oz of gold
- South Area – estimated 3.01M tons of ore; 131,988 oz of gold
Reclamation

- 2,318 acres of disturbance, 1,157 acres have been reclaimed
- 2011 - approximately 40 acres of finished reclamation was inter-seeded by hand to augment growth
- 2012 - South Intra Dump completely re-sloped
- 2012 - 70,000 yds$^3$ of growth media has been placed in mini-dumps at the crest of the Buttress Dump re-sloped areas with placement and seeding of ~20 acres scheduled for this year
- 2012 – 150 Ponderosa Pine trees to be planted
Reclamation
**Third Party Certifications**

- **International Cyanide Code Certification**
  - GSM has been certified under the International Cyanide Management Institute
  - Audited every three years for compliance with the manufacturing, transportation, and use of cyanide in the production of gold

- **ISO 14001:2004 Certification**
  - GSM was part of the blanket certification that Barrick earned
  - Internationally recognized standard for environmental stewardship
  - Focuses on compliance with legislation, prevention of pollution, and continual improvement.
Land Application Project

- Use seepage water to irrigate crops utilizing evapotranspiration as a closure water management tool
- Monitor plant growth, size, and stress as well as soil stress
- Proposed salt tolerable crops:
  - Barley
  - Sunflower
  - Slender Wheatgrass
  - SugarBeet
- Complete test on existing vegetation this summer
- Greenhouse test in controlled environment to see if plants germinate
Land Application Project
Tailings Reprocessing Project

- Barrick Goldstrike experiencing diminishing sulfide fuel in feed
- Golden Sunlight has abundance of sulfide in mill feed, TI2, and TI1
  - Flotation concentration of GSM tails produces sulfide, Au
  - Resultant tailings relatively benign
  - Strong corporate and community support
- TI1 – historic unlined environmental concern
  - Perpetual water treatment
Tailings Reprocessing Project

- **Permitting**
  - Flotation Plant construction is permitted
  - TI2 and direct mill tails currently permitted as feed
  - Dredging of TI2 is currently permitted

- **Project Execution**
  - Preconstruction – 4Q 2012, Construction – 2013
Community Projects

- Adopt a Drainage
  - Sheep Rock Drainage

- Community Transition Advisory Committee (CTAC)
  - Mitigate closure impacts on community

- Assisting BLM with proposed 1153 acres of habitat improvement projects
  - North Whitetail area
  - Dry Mountain and Ringing Rocks
  - Bull Mountain
Raffle Tickets

Made by Barrick Golden Sunlight Mine for
Jefferson River Watershed Council
Total Weight - 1.3 Troy Ounces
1.2 Troy Ounces of Gold