



Mining a Golden Future The Fort Knox Mine September 6, 2007





Production is never more important than the health and safety of people or the protection of the environment.

Never.



Discussion Overview



People

Environment

Production



Management Team

Larry Radford Dan Snodgress Arne Bakke Jerod Eastman Chris Ekstrom **Delbert Parr Bob Musgrove** Clint Nebeker Caroline Sandel David Quandt Lorna Shaw Lance Wheeler

KINROSS

VP & General Manager **Operations Manager** Chief Exploration Geologist Mine Superintendent Chief Mine Geologist **Environmental Manager** Mill Manager Mobile Maintenance Manager Human Resource Manager **Chief Mine Engineer** Gov't & Community Affairs Manager Health & Safety Manager

Community Benefits



KINROSS

- 249 full time employees
- \$14.25 million payroll
- 299 indirect jobs
- \$4 million property taxes
- \$2 million fuel

\$65 million operating budget

<u>2007</u>

- 400 full time employees
- \$39 million payroll
- 492 indirect jobs
- \$3.2 million property taxes
- \$14 million fuel

\$102 million operating budget

- Work with over 500 Fairbanks companies
- Conduct business with over 700 AK companies





Discussion Overview



People

Environment

Production











Environmental Performance











Discussion Overview



People

Environment

Production



















Equipment Fleet



<u>1997</u>

- 4 Cat 785 haul trucks
- 1 Cat 5230 shovel
- 1 Cat 994 loader
- 1 Cat 769 water truck
- 2 Cat D10 dozers
- 1 Cat 834 wheeled dozer
- 2 Cat 16G graders
- 4 IR DM45 drills



<u>2007</u>

- 10 Cat 785 haul trucks
- 8 Cat 789 haul trucks
- 2 MT 3700 haul trucks
- 1 Cat 793 haul truck
- 1 Hitachi EX 3500 shovel
- 2 Hitachi EX 3600 shovels
- 1 Cat 994 loader
- 1 Cat 992 loaders
- 1 Cat 777 lowboy conversion
- 1 Cat 777 water truck
- 1 Cat 769 water trucks
- 4 Cat D10 dozers
- 2 Cat 834 wheeled dozers
- 3 Cat 16G/H graders
- 7 Ingersoll Rand drills



KINROSS







Milling Operations



	<u>1997</u>
Total tons milled:	12,163,000
Average tons per day:	33,320
Mill availability:	88.9%
Gold recovery:	88.9%







Record Production	November 2001
Total tons milled:	1,475,000
Average tons per day	<i>x</i> : 49,160
Mill availability:	98.0%









Plant designed at 36,000 tons per day

10 years of Continuous Improvement







2006 Mill Production

- 2006 Tons Milled 14,838,980
- 40,655 tons per day
- 333,197 ounces produced
- 95.67% Mill availability
- Record low reagent consumption for:
 - Cyanide
 - Lime
 - Flocculants
 - Caustic
 - Hydrochloric acid





A Golden Future

- Current mine life
 - 2010 for the mine
 - 2012 for the mill
- Active exploration program
- Phase 7 expansion
 - 2014 for the mine
 - 2019 for processing
- Heap Leach processing facility







Heap Leach Location







Valley Fill Heap Design



The Fort Knox design is similar to existing operations

- Barrick Veladero, Argentina
- Barrick Pierina, Peru
- Coeur Rochester, Nevada





Valley Fill Heap Design



Valley fill leach pad design features

- Suitable for rugged terrain
- Internal solution ponding
- Resistance to solution freezing



Valley Fill Heap Design



KINROSS

Current Valley Fill heap design

Ultimate capacity 161 million tons 310 acres

3:1 outer slopes



Note: The secondary LLDPE liner and sand layer are not needed outside the pond solution storage area



Heap Leach Permitting

Alaska Department of Natural Resources

- ✓ Fort Knox Plan of Operations
- Modification of the Fort Knox Millsite Lease
- ✓ Fort Knox Reclamation & Closure Plan approval
- Monitoring Plan approval
- Certificate of Approval to operate a Dam

Alaska Department of Environmental Conservation

- ✓ Fort Knox Solid Waste authorize
- ✓ Certificate of Reasonable Assurance (for COE 404 Permit)
- ✓ Fort Knox Reclamation & Closure Plan approval

US Army Corps of Engineers

404 Wetlands Permit

Pending Review





People. Environment. Production. We've got our priorities straight.