



Creating Value Through Operational Excellence



Northgate Exploration Limited

Kemess North Project

Minerals North April 2004



Northgate Exploration Limited

Overview

BRITISH COLUMBIA based gold mining company

Principal asset is the Kemess South mine and the adjacent Kemess North deposit which is currently the subject of a feasibility study

Production in 2003: 294,117 ounces of gold;
76.2 million pounds of copper

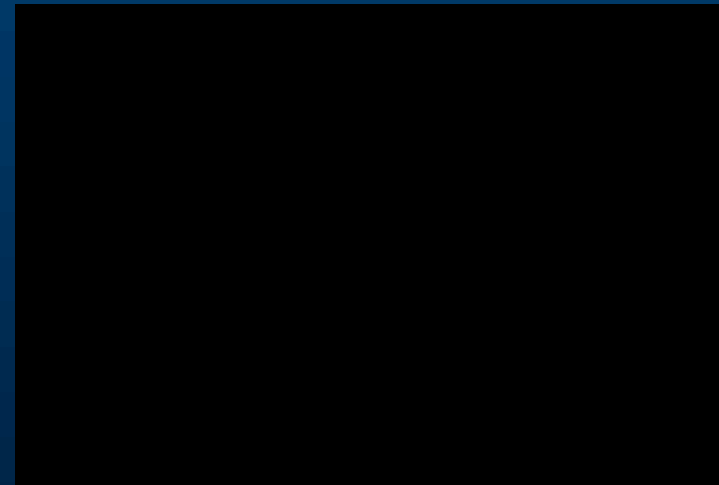
Listed on the TSX (NGX) and AMEX (NXG)

Market capitalization approximately \$600 million (\$30 million in 2000)



Northgate Exploration Limited

A brief overview ...





Kemess South Mine

Located in north-central British Columbia

BC's second largest metal mine

Mining rate

- 150,000 tonnes/day

Mill throughput

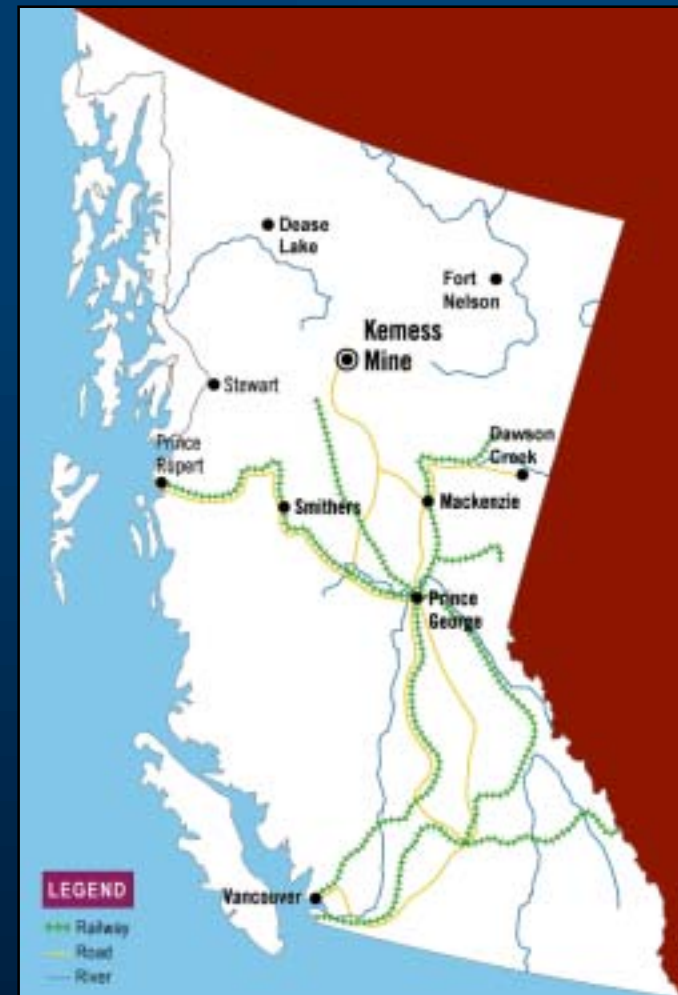
- 50,000 tonnes/day

Life of mine profile

- 300,000 oz/y gold
- 75 million lbs/y copper
- ore depleted 2008

Economics

- 500 workers on site, 1,000 further indirect jobs
- \$150 million in yearly direct expenditures
- original investment \$800 million +



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*Aerial View of the Kemess South mine
with Mill Complex in the Foreground*





History of the Kemess South Mine

Deposit known for 15 years

Kemess South acquired in 1996 by Royal Oak Mines

Construction – 1996

Production – 1998

Financial problems led Royal Oak into receivership

Northgate Exploration acquired the mine in February 2000

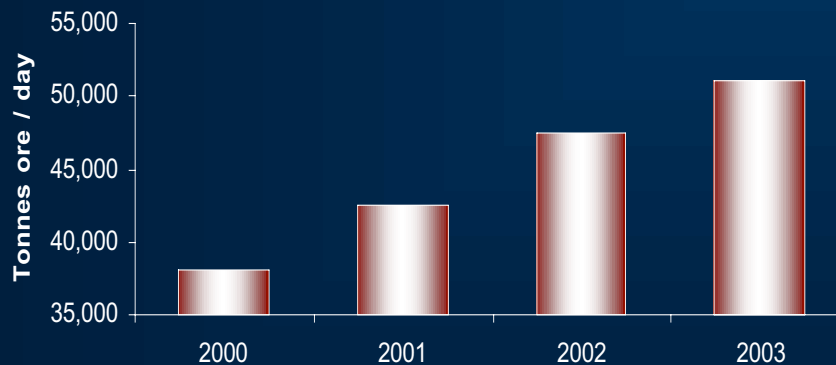


Kemess South

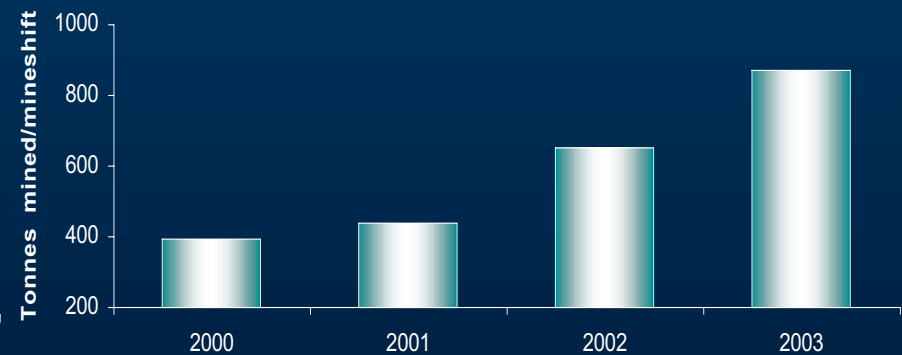
Operational Improvements

Mill throughput and mining efficiencies have steadily increased.

Mill Throughput



Mining Efficiency



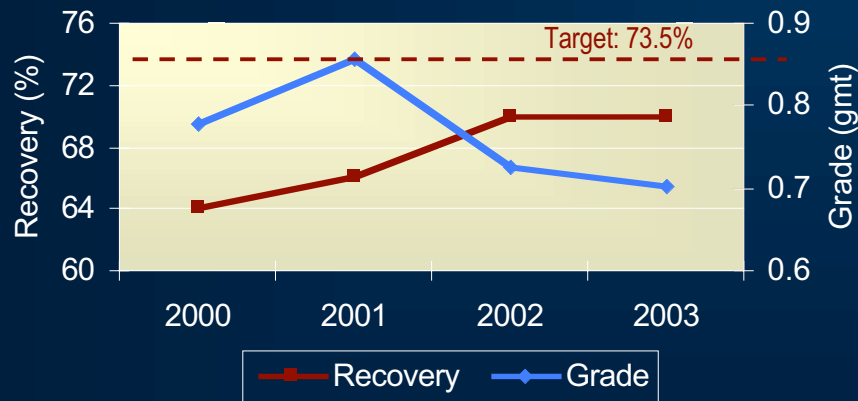


Kemess South

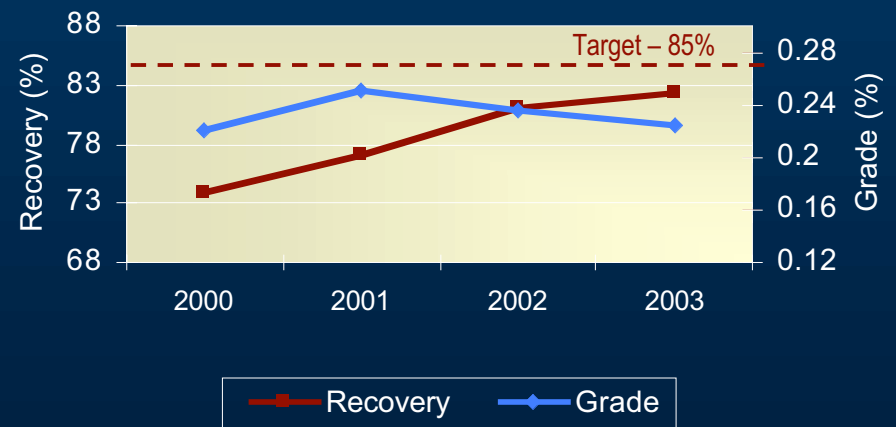
Metallurgical Improvements

Recoveries have increased even as grades have declined.

Gold



Copper

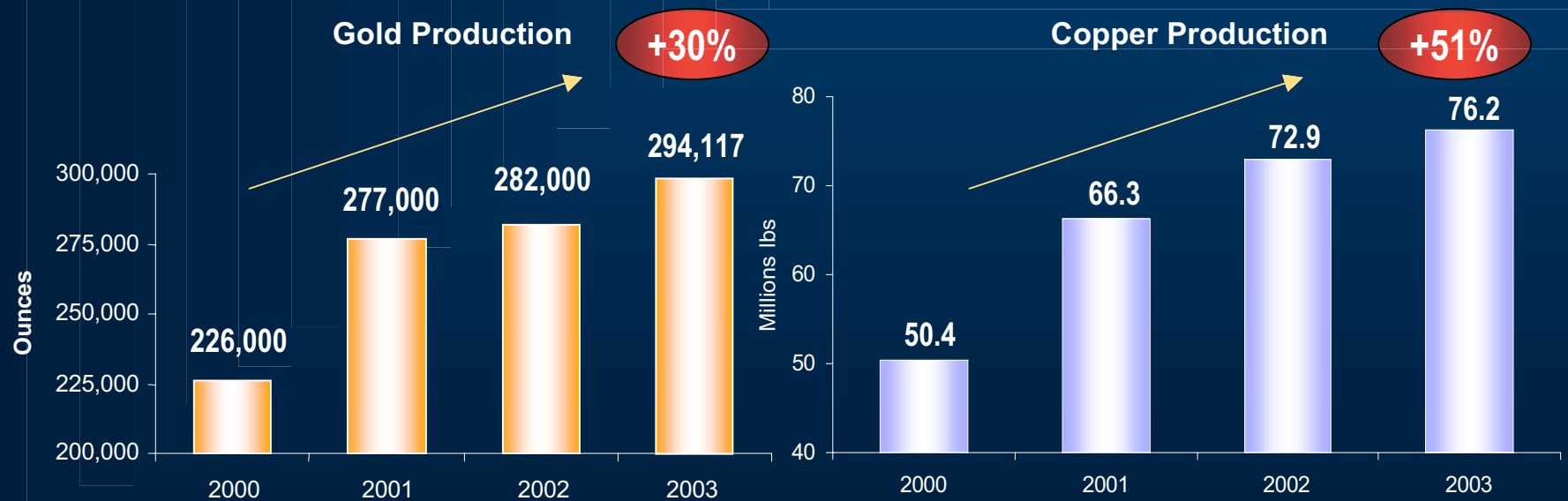




The Northgate Advantage

Strong operating team with a proven track record.

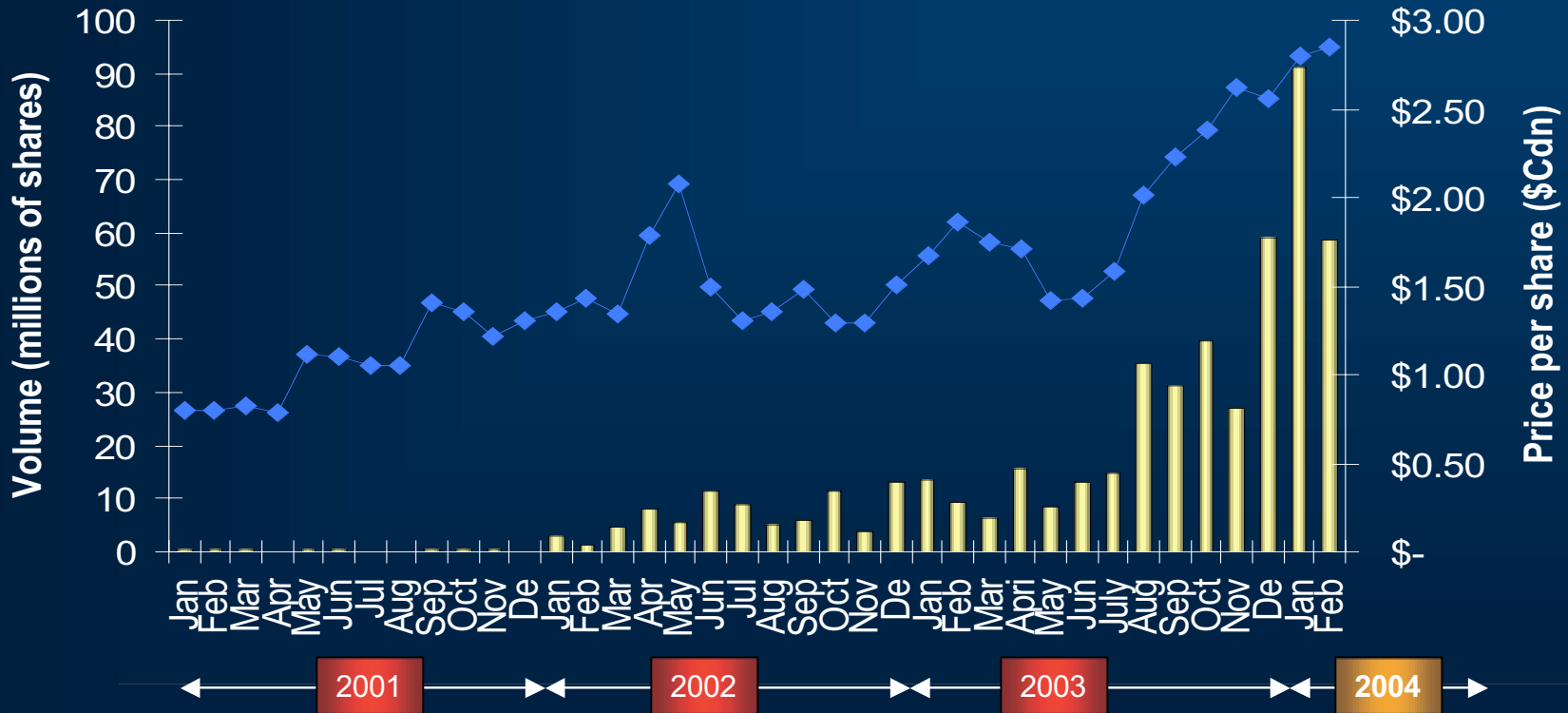
Metal production has increased dramatically since 2000.





Northgate Overview

Historic Trading Summary



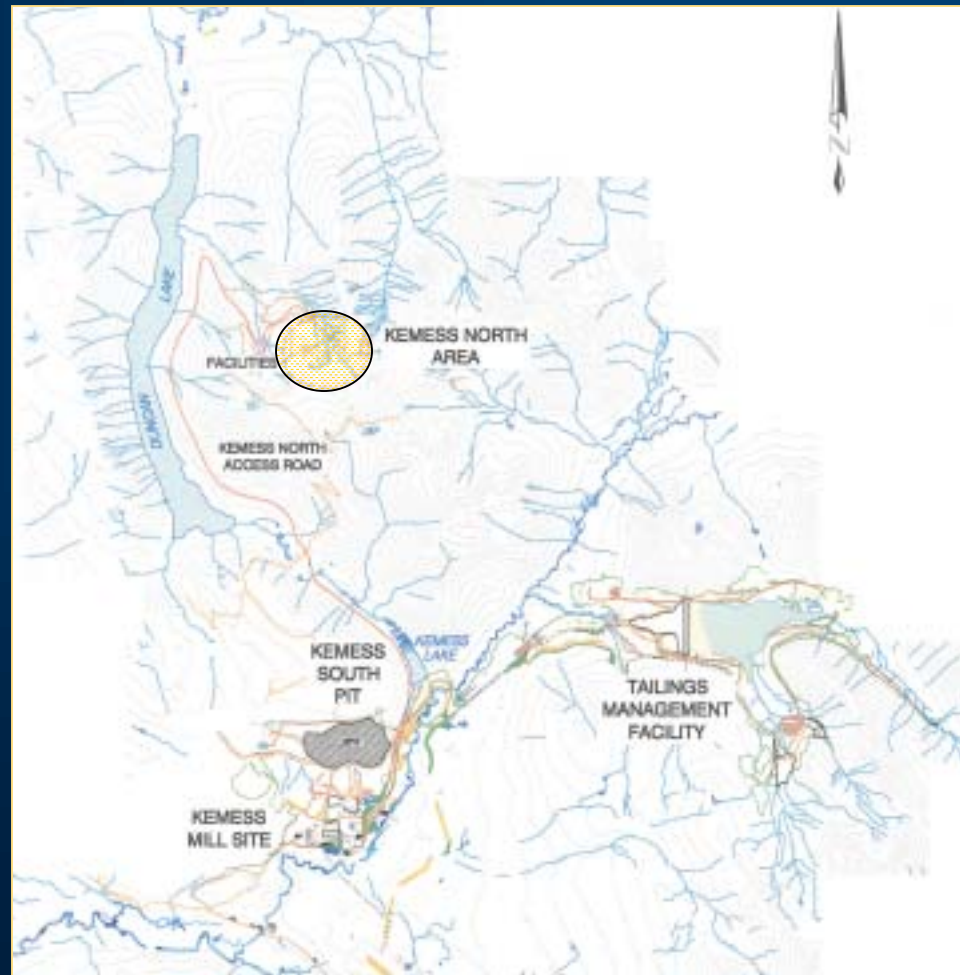
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Kemess North

Location Map

*5.5 kilometers north of
the Kemess South mine*



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Background: Kemess North

Placer mining 1890

Prospecting 1930's

Copper-boom 1966

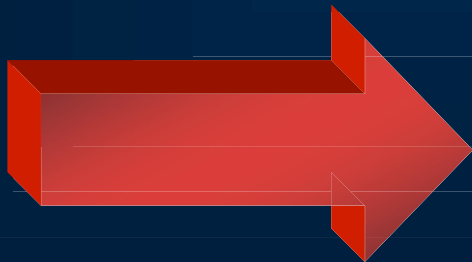
- Kennco ('66-'71)
- Getty ('75-'76)
- El Condor ('86-'92)
- Northgate ('00->)





Plan for Mine Life Extension - Kemess North

- 2000 Northgate began an extensive exploration program at Kemess North (the original area discovery) – \$600,000
- 2001 Exploration program defined high grade – \$1.5 million
- 2002 \$5.4 million spent on drilling confirmed sizeable ore body – the largest drilling program in BC in many years
- 2003 \$5 million invested in pre-feasibility and feasibility studies



***KEMESS NORTH COULD
ADD 20 YEARS TO MINE LIFE***



Kemess North Project

Exploration Success – Kemess North

Resource increased and upgraded.

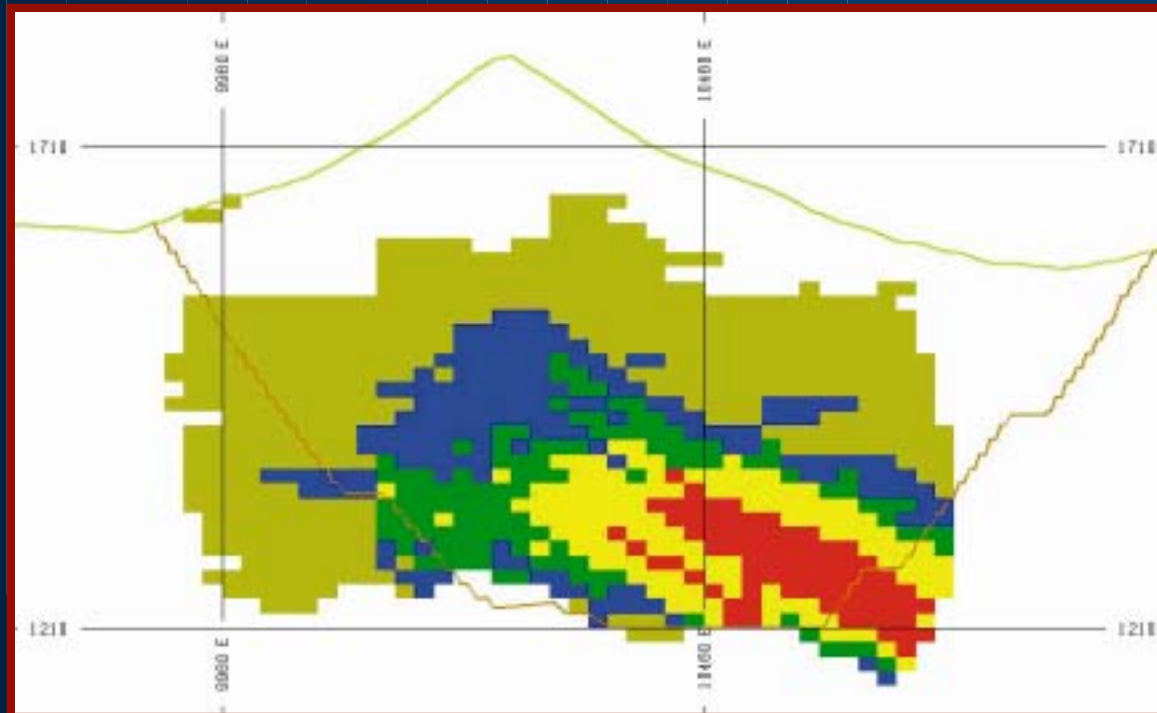
Year End	Resource Category	Contained Metals	
		Au (ounces)	Cu (millions lbs)
2001	Inferred	5,700,000	2,200
2002	Indicated	5,400,000	2,000
		Inferred	400
		6,600,000	2,400

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Kemess North Project

Pit Cross-Section Running 16300N East to West





Exploration

Kemess Claims

Excellent potential to host

- Additional Gold/Copper porphyry deposits
- Higher grade gold epithermal deposits
- Skarn deposits

2004 Program (\$1M)

- Geophysical surveying
- Diamond drilling
- Trenching and prospecting



87,000 acres of claims surrounding existing infrastructure.



Kemess North Project

Pre-feasibility Study Mine Plan

Mineable Resource: 370 million tonnes @ Au 0.34 gr/mt,
Cu 0.18 %

- Containing 4.0 million ounces of gold
and 1.4 billion pounds of copper

Waste/Ore Strip Ratio 0.6:1



Kemess North Project

Pre-feasibility Study Summary

	Annual Averages	
	2004 – 2009	2010 – 2019
Production		
Gold – oz	283,000	228,000
Copper – mm lbs	77	117
Operating Parameters		
Mining – mm tonnes	47.9	43.4
Milling – mm tonnes	22.0	34.0
Operating Cost – Cdn\$ / tonne milled	5.97	4.34
Gold Cash Cost – US\$ / oz ⁽¹⁾	173	135

(1) Cu – US\$0.95/lb; Cdn/US FX 0.67



Kemess North Development Plan

The project must follow a very tight timeline to be viable

- Feasibility Study complete near end of Q1/2004
- Permitting process has commenced
- Permits needed by mid 2005, if project to proceed
- Construction begins summer 2005
- Kemess North ore processing starts late 2006



Kemess North Project

Development Plan

	Mill Throughput (tonnes/day)		
	2004-05	2006-09	2010-19
Kemess South	52,000+	30,000	0
Kemess North	0	37,500	93,000+
Total	52,000	67,500	93,000+

When Kemess North ore is exhausted in 2019 a decision will be made on a push back to access additional higher grade ore resources at the bottom of the pit, based on prevailing metal prices.



Environment

Environmental Principles

The Kemess life extension will be guided by Northgate's proven commitment to the highest environmental standards

Kemess South Fisheries compensation program has been extremely successful

Minimize/eliminate acid generation and potential metal leaching

Minimize down stream water quality impacts

Minimize impact on fish and wildlife

Enhance fish and wildlife habitat



Environment

The Challenge

Minimum of 600 million tonnes of potentially acid generating waste rock and tailings

Long-term exploration potential good with opportunity to significantly increase reserves in region

Present tailings impoundment will be essentially full by the end of Kemess South

Long-term waste management plan required for any future development in the area



Environmental Plan

*Underwater Disposal of Mine Wastes is
Best Environmental Option*

Eliminates acid mine drainage

Minimizes metals in solution

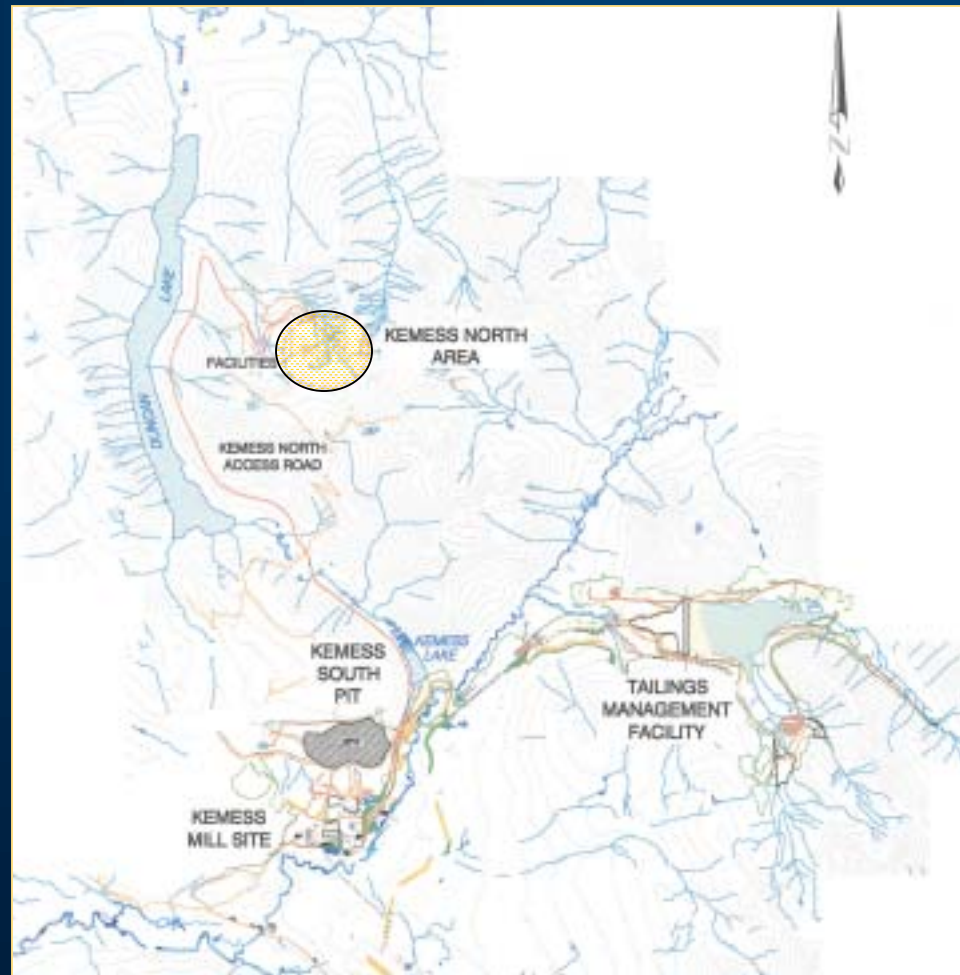
Generally accepted as technically superior method of mine
waste and tailings disposal

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Kemess North Project

Location Map





Environmental Plan

Duncan Lake

Exhaustive study to look at alternatives for waste disposal – 16 sites studied

Duncan Lake is the superior environmental alternative

Limited access, very low productivity alpine lake with no endangered species

Can handle all mine waste plus tailings

Comprehensive fisheries compensation program under development to provide for no net loss of habitat

Plan to restore Duncan Lake at the end of the Kemess North project



Cascadero Falls Hydro Project

Kemess is BC Hydro's eighth largest customer

Northgate is evaluating a run-of-river hydroelectric generation project near the outlet of Thutade Lake, approximately 10 km from Kemess

Application has been made to Land and Water BC for land tenures and water licenses which are currently under review

Scoping study underway

Benefits include regional hydro power which could displace costly and unreliable diesel power in local First Nations communities

Supplement hydro grid power to Kemess

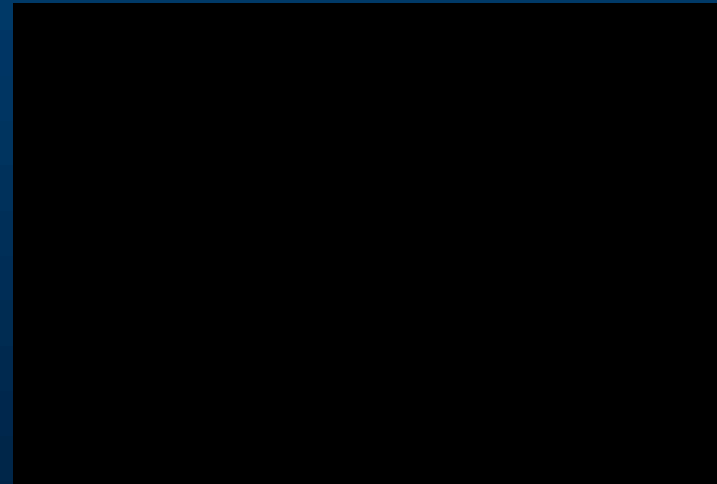
More power for local industrial development

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Kemess North

The story continues ...



An aerial photograph of a mountain range with a road winding through a valley. The mountains are covered in green vegetation, and the road is a light-colored line cutting through the landscape. The sky is blue with some clouds.

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Stewart-Omineca Road

Approximately 150 kilometers required to complete connection

Will encourage increased mineral exploration and other economic activity

Would provide economic opportunities for First Nations

Controlled access to minimize impacts on wildlife and local eco-tourism businesses

Reduced shipping costs could extend Kemess North mine life and make deposits such as Sustut viable



Conclusion - Kemess North Project

1. The highest standards of environmental practice and responsibility will guide the Kemess North Project.
2. The Kemess North project will generate significant long-term economic benefits.
3. The people of Northern BC including First Nations will benefit particularly.
4. Kemess North has sparked a renewed interest in exploration and mine development in north-central BC.



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