



**P.O. Box 370
KIRKLAND LAKE, ON, P2N 3J7**

Symbol – TSX & AIM: **KGI**

July 15, 2009

Substantial Increases in Reserves & Resources of the South Mine Complex

Kirkland Lake Gold Inc. (the “Company”) is pleased to present its year-end (April 30, 2009) gold reserve and resource estimates for its operations in Kirkland Lake, Ontario on both the historic Main Break and the recently discovered South Mine Complex or SMC. The South Mine Complex consists of 15 or more mineralized zones, five of which have been defined over strike lengths in excess of 1,000 feet.

During the fiscal 2009, the Company concentrated its exploration efforts on the SMC and realized substantial increases in proven and probable reserves as well as measured and indicated resources. These increases are attributable to drifting, definition diamond drilling as well as exploration diamond drilling from both the 5000 and 5300 level cross cuts and the decision to focus drilling resources on upgrading ounces from the inferred category in anticipation of increased future gold production.

”The geology department delivered a 28% increase in proven and probable ounces in the SMC and a 28% increase in measured and inferred resources, despite not having access during the fiscal year to certain drill bays due to the ventilation project,” said Company President, Brian Hinchcliffe. “An increase in development projects this year will allow for greater flexibility and will enable more strategic exploration.”

SOUTH MINE COMPLEX RESERVES & RESOURCES

	As at April 30, 2008			As at April 30, 2009			% Change (in total ounces)
	Tons	Grade opt	Ounces	Tons	Grade opt	Ounces	
Reserves:							
Proven	93,000	0.79	73,000	118,000	0.70	83,000	+28%
Probable	603,000	0.78	470,000	817,000	0.75	613,000	
Resources:							
Measured	8,000	0.45	4,000	7,000	0.37	3,000	+28%
Indicated*	352,000	0.66	232,000	468,000	0.64	299,000	
Inferred*	707,000	0.79	558,000	704,000	0.84	590,000	+6%

* Includes 50% of resources estimated in the South Claims Joint Venture Property

PROPERTY WIDE RESERVES & RESOURCES
(Including the South Mine Complex)

	As at April 30, 2008			As at April 30, 2009			% Change (in total ounces)
	Tons	Grade opt	Ounces	Tons	Grade opt	Ounces	
Reserves:							
Proven	1,200,000	0.44	528,000	1,137,000	0.44	499,000	+5%
Probable	1,303,000	0.62	804,000	1,426,000	0.63	897,000	
Resources:							
Measured	979,000	0.38	376,000	950,000	0.39	368,000	-2%
Indicated	1,471,000	0.43	632,000	1,309,000	0.47	619,000	
Inferred	1,345,000	0.61	822,000	1,516,000	0.59	894,000	+9%

The above reserve and resource estimates have been audited and verified by the Company's independent reserve and resource engineer, Glenn R. Clark, P. Eng., of Glenn R. Clark & Associates Limited. He is a 'qualified person' under National Instrument 43-101, *Standards of Disclosure for Mineral Projects*, of the Canadian Securities Administrators. A report detailing the fiscal 2009 reserve and resource estimates will be filed on SEDAR (www.sedar.com) within 45 days of this press release. See 'Notes for Reserves and Resources' below for key assumptions, parameters and methods used to estimate the foregoing reserves and resources.

Highlights of the Current Reserve and Resource Estimates

The highlights of the current reserve and resource estimates include:

- Proven and probable reserves and measured and indicated resources in the SMC both increased by 28% and now stand at 1.41 million tons at a grade of 0.71 ounces of gold per ton (opt) for a total of 998,000 ounces. Inferred resources increased 6% to 704,000 tons at a grade of 0.84 opt or 590,000 ounces.
- Proven and probable reserves for the entire mine have increased by 5% since last reported at the end of fiscal year 2008. Proven and probable reserves now stand at 2,563,000 tons at a grade of 0.54 opt or 1,396,000 contained ounces. Measured and indicated resources showed a minor decrease (-2%) over the same period and now stand at 2,259,000 tons at a grade of 0.44 opt or 987,000 contained ounces. Inferred resources increased by 9% to 1,516,000 tons at a grade of 0.59 opt or 894,000 contained ounces. The decrease in measured and indicated is due to the conversion from indicated resources to probable ore in the SMC and re-classification of some of the historical resources.
- Drilling on the New South Zone between the 5300 and 5600 elevations has resulted in an 80% conversion rate from inferred resources to probable ore (see the Company's news release dated June 23, 2009).

Exploration Plans for Fiscal 2010

The exploration plans for fiscal 2010 include:

- The fiscal 2010 exploration budget has been set at \$7.4 million dollars and will include \$2.5 million dollars of development to provide access for drilling on the SMC and \$3.2 million dollars for diamond drilling.
- Exploration drilling will target both the SMC as well as previously untested areas within the '04 Break system.

Notes for Reserves and Resources:

1. The reserves and resources are estimated using the polygonal method.
2. All intersections are calculated out to a 5.0 foot minimum horizontal mining width for structures dipping greater than 45 degrees. The minimum mining height for structures dipping less than 45 degrees is 6.5 feet.
3. Dilution is added to reserves at varying rates depending on mining method, and the width of the ore. The average dilution of the reserves at April 2009 is 33.7% at 0.02 opt. Long-hole stopes are diluted by 32-50%, mostly 50%. Cut and fill stopes 5-7 feet wide are diluted 15-50%. Most of the narrower stopes are diluted by 50%. Cut-and-fill stopes that are greater than 7 feet wide are diluted 10-15%
4. All higher grades are cut to 3.50 opt. Based on a statistical analysis completed by Scott Wilson Roscoe Postle Associates Inc. in 2007, the Company has implemented various higher grade cutting factors for four zones in the South Mine Complex. These four zones are the New South Zone (7.2 oz gold/ton), Lower D North (9.3 opt), Lower D North Footwall (4.8 opt), and the #7 and #7 HW Zones (6.4 opt). The cut-off is 0.25-0.30 opt over the horizontal or vertical mining width. Cut-off grades of 0.25 opt and 0.35 opt are used for reserve and resource calculations, depending on the location, and economics of the block. Generally, a cut-off of 0.31 opt is required on a whole-block basis to achieve profitability. It is possible to have sub-blocks within an ore reserve block that assay less than any cut-off which have been incorporated for mining or geotechnical reasons. Ore blocks that grade between 0.20 opt and the cut-off has been classified as resource.
5. The area of influence of the proven and measured categories are 30 feet from development chip samples, probable and indicated categories are 50 feet of radius from a known sample point (drill holes) and inferred is another 50 feet of influence.
6. A 94% tonnage recovery is used. Continuity of the veins appears very good.
7. The assumptions used include \$761.59 U.S. per ounce of gold, and an exchange rate of \$1.10 Canadian=U.S. \$1.00 (\$838.95 Canadian per ounce = 3 year average).
8. The Company is not aware of any environmental, permitting, legal, title, taxation, socio-political, marketing or other issue that may materially affect its estimate of mineral resources.
9. Mineral resources which are not mineral reserves do not have demonstrated economic viability.

About the Company

The Company purchased the Macassa Mine and the 1,500 ton per day mill along with four former producing gold properties – Kirkland Lake, Teck-Hughes, Lake Shore and Wright Hargreaves – in December 2001. These properties, which have historically produced some 22 million ounces of gold, extend over seven kilometres between the Macassa Mine on the west

and Wright Hargreaves on the east and, for the first time, are being developed and explored under one owner. This camp is located in the Abitibi Southern Greenstone Belt of Kirkland Lake, Ontario, Canada.

Other Reserve Reports

The Company's Macassa Mine Property is the subject of reserve reports prepared by:

- Glenn R. Clark, P. Eng., entitled *Review of Resources and Reserves of Macassa Mine, Kirkland Lake, Ontario* dated July 15, 2008.
- Glenn R. Clark, P. Eng., entitled *Review of Resources and Reserves of Macassa Mine, Kirkland Lake, Ontario* dated October 31, 2007.

Both of these technical reports have been filed on SEDAR (www.sedar.com).

For further information, please contact:

Brian Hinchcliffe
President

Phone: 1 705 567 5208

Fax: 1 705 568 6444

E-mail: bhinchcliffe@klgold.com

Chelsea Hayes
Pelham Public Relations

Phone: +44 20 7743 6675

E-mail: chelsea.hayes@pelhampr.com

Scott Koyich

Investor Relations

Phone: 1 403 215 5979

E-mail: info@klgold.com

NOMAD: Panmure Gordon (UK) Limited
Katherine Roe / Ashton Clanfield

Phone: +44 20 7459 5744

Email: katherine.roe@panmure.com

Guy Wilkes
Ocean Equities Ltd.

Phone: +44 207 786 4370

E-mail: guy.wilkes@oceanequities.co.uk

Website- www.klgold.com

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