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New High-Grade Discovery Located 1200 Feet West of South Mine Complex; Production Commences from a Second Level in the SMC

Kirkland Lake Gold Inc. (the “Company”) is pleased to announce an update on exploration drilling and development on the South Mine Complex (SMC). The SMC consists of 15 or more mineralized zones located 800 feet or more south of the historical mine workings.

Stewart Carmichael, Chief Exploration Geologist, commented: “Drill hole 50-915 returned 10.99 ounces of gold per ton or 377 grams per tonne over an estimated 2.8 feet true width located 1,200 feet west of the SMC and shows good alignment with the existing geometry of the SMC. He added, “It’s still too early to draw any conclusions to the size of this discovery, however, this intersection is well outside of the current known extent of the SMC proves there is considerable potential for expansion of the SMC along the strike.”

Steve Gray, Chief Production Geologist, commented: “For the first time we’re now producing ore from two levels accessing the SMC. Since drifting began on the 5000 level in January on the Lower D Zone, the first 314 feet of advance yielded 3,146 tons of ore grading 0.64 opt or 22 grams per tonne.” He added, “This development work on the 5000 level will compliment the mining on the 5300 foot level which has produced 18,400 tons at a recovered grade of 0.68 ounces of gold per ton or 23.3 grams per tonne since May 2007.”

Highlights of the current results:

- Drill hole 50-915 has intersected a new mineralized zone which assayed 10.99 ounces of gold per ton (opt) uncut (2.09 opt cut) over a core length of 5.2 feet (estimated 2.8 feet true width) and included 26.65 opt uncut over a core length of 2.0 feet (estimated 1.1 feet true width). (see figure 1)
- Mineralization in this hole comprises a porphyry-hosted quartz breccia vein dipping 48 degrees south. The mineralization appears to be 85 feet south of the historical #6 Break and so it is likely to be related. Visible gold and tellurides were observed throughout the vein. The style of mineralization is different to the SMC further to the east which is characterized by abundant pyrite mineralization. Drilling thus far indicates the zone to be capped above the 5200 foot elevation, remaining open to depth and down-plunge. (see figure 2)
- The #6 Break is an extensive hanging wall splay structure, inclined from the Main Break and can be traced east through the Kirkland Minerals and Teck-Hughes mine properties to the past producing Lake Shore property, a distance of nearly two miles from the above reported drill hole 50-915. The #6 Break was the controlling structure for most of the ore produced at Kirkland Minerals.
- The 5000 foot level crosscut was started in November of 2006 and has been driven 1,450

feet to the south. This crosscut provides top access to the Lower D Zone, #7 Break, Lower D North and other zones comprising part of the SMC. It will also be utilized for delivery of paste and for ventilation purposes for mining of the SMC.

- Initial drifting and face chip sampling on the Lower D Zone from the 5000 foot level cross cut has returned 314 feet grading 0.64 opt over an average drift width of 10.1 feet. This compared favourably with historical drilling in the area which averaged 0.57 opt over 10.1 feet. The Lower D Zone, which is the first major discovery to the south comprising part of the SMC, has been defined by drilling to extend an additional 640 feet west and south at the 5000 foot elevation. A recently completed drill hole, 50-940, returned 7.54 opt over a core length of 2.4 feet indicating that the Lower D Zone extends an additional 64 feet east of the 5000 level cross cut. Drifting will continue to fully define this zone both east and west of the cross cut. (see figure 3)
- The Lower D Zone was discovered in November 2003 with drill hole 47-994B which returned 0.16 opt over a core length of 62.2 feet including 0.33 opt over a core length of 20.1 feet. (see press release dated November 6, 2003) Other previously reported intersections include drill hole 47-1022A which assayed 0.72 opt over a core length of 21.5 feet and drill hole 47-1045 which assayed 1.07 opt over a core length of 17.0 feet (11.4 feet true width). (see press releases dated March 29, 2004 and October 4, 2004)

The figures referred to in this release may be viewed at the Company's website at www.klgold.com and will provide context to the above statements.

Figure 1 is a plan view of the new discovery west of the SMC and the 5000 level development.

Figure 2 is a longitudinal section showing the new discovery relative to the SMC.

Figure 3 is a detailed plan view showing drift assay results on the Lower D Zone, 5000 level.

The following table summarizes some of the latest drilling program results. (Imperial values)

DRILL HOLE No.	ZONE	FROM (feet)	TO (feet)	HOLE DIP (degrees)	AZIMUTH (degrees)	ASSAY (oz per ton/feet)
50-915	#6 Break New Zone Incl.	812.0 904.0 904.0	814.0 909.2 906.0	-17	119	0.79/2.0' CL=1.1' TW, VG, Tell 10.99/5.2' CL=2.8' TW, Uncut 2.09/5.2' CL=2.8' TW, Cut 26.65/2.0' CL=1.1' TW, VG
50-937	#6 Break New Zone	835.0 934.0	836.0 936.0	-20	119	0.47/1.0' CL=0.5' TW 1.20/2.1' CL=1.1' TW, VG, Tell
50-623B	#6 Break New Zone	770.0 808.0	771.0 810.0	-13.5	120	0.73/1.0' CL=0.5' TW 0.22/2.0' CL=1.1' TW
50-916	#6 Break New Zone	891.8 950.5	893.1 952.2	-15	108	0.23/1.5' CL=0.7' TW 0.02/1.7' CL=0.8' TW
50-938	#6 Break New Zone	869.8 937.8	870.8 942.7	-16	102	0.34/1.0' CL=0.5' TW 0.05/4.9' CL=2.5' TW
50-939				-20	132	Assays Pending
50-942B				-23	108	Assays Pending

TW = True Width **CL** = Core Length **VG** = Visible Gold **TELL** = Tellurides **HW** = Hanging wall **FW** = Footwall
CUT = cut to 3.5 opt

The following table summarizes some of the latest drilling program results. (Metric values)

DRILL HOLE No.	ZONE	FROM (m)	TO (m)	HOLE DIP (degrees)	AZIMUTH (degrees)	ASSAY (grams per tonne/m)
50-915	#6 Break New Zone	247.6 275.6	248.2 277.2	-17	119	27.09/0.6m CL=0.3m TW, VG 376.80/1.6m CL=0.9m TW, Uncut 71.66/1.6m CL=0.9m TW, Cut 913.72/0.6m CL=0.3m TW, VG
	Incl.	275.6	276.2			
50-937	#6 Break New Zone	254.6 284.8	254.9 285.4	-20	119	16.11/0.3m CL=0.2m TW 41.14/0.6m CL=0.3m TW, VG
50-623B	#6 Break New Zone	234.8 246.3	235.1 247.0	-13.5	120	25.03/0.3m CL=0.2m TW 7.54/0.7m CL=0.3m TW
50-916	#6 Break New Zone	271.9 289.8	272.3 290.3	-15	108	7.89/0.4m CL=0.2m TW 0.69/0.5m CL=0.2m TW
50-938	#6 Break New Zone	265.2 285.9	265.5 287.4	-16	102	11.66/0.3m CL=0.2m TW 1.71/1.5m CL=0.8m TW
50-939				-20	132	Assays Pending
50-942B				-23	108	Assays Pending

TW = True Width **CL** = Core Length **VG** = Visible Gold **TELL** = Tellurides **HW** = Hanging wall **FW** = Footwall
CUT = cut to 120.0 grams/tonne

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.

Qualified Person

The results of the Company's underground diamond drilling program have been reviewed, verified (including sampling, analytical and test data) and compiled by the Company's geological staff (which includes a 'qualified person', Stewart Carmichael P.Geo., the Company's Chief Exploration Geologist, for the purpose of National Instrument 43-101, *Standards of Disclosure for Mineral Projects*, of the Canadian Securities Administrators). Mr. Carmichael also supervised the preparation of the information that forms the basis of the technical disclosure in this release.

Quality Assurance & Control

The Company has implemented a quality assurance and control (QA/QC) program to ensure sampling and analysis of all exploration work is conducted in accordance with the best possible practices. The drill core is sawn in half with half of the core samples shipped to the Swastika Laboratories in Swastika, Ontario or to the Macassa mine laboratory for analysis. The other half of the core is retained for future assay verification. Other QA/QC includes the insertion of blanks, and the regular re-assaying of pulps/rejects at alternate certified labs (Polymet, Accurassay). Gold analysis is conducted by fire assay using atomic absorption or gravimetric

finish. The laboratory re-assays at least 10% of all samples and additional checks may be run on anomalous values.

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 18, 2006.
- Glenn R. Clark, P.Eng., entitled *Review of Resources and Reserves of the New South Mine Complex, Macassa Mine, Kirkland Lake, Ontario* dated August 25, 2007.

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

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This Press Release may contain statements which constitute 'forward-looking, including statements regarding the plans, intentions, beliefs and current expectations of the Company, its directors, or its officers with respect to the future business activities and operating performance of the Company. The words "may", "would", "could", "will", "intend", "plan", "anticipate", "believe", "estimate", "expect" and similar expressions, as they relate to the Company, or its management, are intended to identify such forward-looking statements. Investors are cautioned that any such forward-looking statements are not guarantees of future business activities or performance and involve risks and uncertainties, and that the Company's future business activities may differ materially from those in the forward-looking statements as a result of various factors. Such risks, uncertainties and factors are described in the periodic filings with the Canadian securities regulatory authorities, including the Company's Annual Information Form and quarterly and annual Management's Discussion & Analysis, which may be viewed on SEDAR at www.sedar.com. Should one or more of these risks or uncertainties materialize, or should assumptions underlying the forward-looking statements prove incorrect, actual results may vary materially from those described herein as intended, planned, anticipated, believed, estimated or expected. Although the Company has attempted to identify important risks, uncertainties and factors which could cause actual results to differ materially, there may be others that cause results not be as anticipated, estimated or intended. The Company does not intend, and does not assume any obligation, to update these forward-looking statements.