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Symbol – TSX & AIM: **KGI**

June 23, 2009

Drill Hole 53-1279 Returns 23.75 Ounces of Gold per Ton over 14.0 feet; Other Exploration Results

Kirkland Lake Gold Inc. (the Company) is pleased to announce an update on exploration drilling testing part of the South Mine Complex (SMC). The SMC consists of 15 or more mineralized zones, some of which are actively being explored and developed while others are now in production.

Recent drilling from one of many exploration programs currently in progress, designed to test inferred resource areas and expand the New South Zone between the -5600 and -5300 foot levels, has returned high grade gold mineralization.

“Approximately 80% of the drill holes completed during this program intersected high grade mineralization within previously defined inferred resource areas as well as untested areas.” said Stewart Carmichael, Chief Exploration Geologist. He added, “Drill holes 50-1065AW and 50-1065AW1 have extended the strike length of the New South Zone an additional 130 feet east and have intersected new high grade mineralization footwall to the New South Zone.”

The highlights of this recent drilling include:

- Drill hole 53-1279 assayed 23.75 ounces of gold per ton (opt) uncut (3.60 opt cut) over a true width of 14.0 feet on the New South Zone, and included:
 - 15.89 opt (uncut) over a true width of 0.9 feet,
 - 17.96 opt (uncut) over a true width of 1.8 feet,
 - 27.93 opt (uncut) over a true width of 0.9 feet, and
 - 192.50 opt (uncut) over a true width of 1.3 feet.

Three other drill holes, located 70 to 80 feet from hole 53-1279, returned high grade mineralization on the New South Zone including:

- 1.98 opt (cut) over a true width of 4.8 feet (hole 53-1218),
- 3.25 opt uncut or 2.25 opt cut over a true width of 7.7 feet (hole 53-1223) and
- 1.96 opt uncut or 1.46 opt cut over a true width of 9.7 feet (hole 53-1278)

(See figure 1)

- Drill holes 50-1065AW and 50-1065AW1 intersected the New South Zone 130 feet and 65 feet east of previously released drill hole 50-762 (0.53 opt over 18.9 feet true width, see the Company’s news release dated April 18, 2007). Drill hole 50-1065AW assayed 0.40 opt over a true width of 3.1 feet and hole 50-1065AW1 assayed 0.66 opt over a true width of 9.5 feet. A new footwall zone was also intersected, in respect of which drill hole 50-1065AW assayed 1.56 opt over a true width of 0.5 feet and hole 50-1065AW1 assayed 26.25 opt uncut (2.90 opt cut) over a true width of 2.9 feet and included 29.28 opt over a true width of 0.4 feet, 19.99 opt over a true width of 0.4 feet and 94.96 opt over a true width of 0.5 feet.

- New hanging wall and footwall mineralization to the New South Zone was also intersected, in respect of which drill hole 53-1220 intersected a new footwall zone and assayed 73.55 opt over a true width of 2.5 feet. The mineralization comprises 3% disseminated tellurides, likely calaverite, with minor visible gold, and hosted within a chlorite altered shear zone.

The figure referred to in this release may be viewed at the Company's website, www.klgold.com and will provide context to the above statements. Figure 1 is a plan view showing the latest drilling results.

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

DRILL HOLE No.	ZONE	FROM (feet)	TO (feet)	HOLE DIP (degrees)	AZIMUTH (degrees)	ASSAY (oz per ton/feet)
53-1279	New HW New South Incl. and and and and	264.9 297.0 298.0 301.3 305.0 306.0 307.4	269.9 312.4 299.0 303.3 306.0 307.4 309.4	-76	339	0.59/5.0' CL=?? TW 23.75/15.4' CL=14.0' TW, Uncut 3.60/15.4' CL=14.0' TW, Cut** 15.89/1.0' CL=0.9' TW, VG 17.96/2.0' CL=1.8' TW, VG 27.93/1.0' CL=0.9' TW, VG, Tell 192.50/1.4' CL=1.3' TW, VG, Tell 4.21/2.0' CL=1.8' TW
53-1218	New South Incl.	267.0 269.5	272.0 272.0	-49	312	1.98/5.0' CL=4.8' TW 3.63/2.5' CL=2.4' TW, VG
53-1223	New South Incl. and and	302.5 302.5 307.5 310.6	312.0 303.8 309.0 312.0	-58	007	3.25/9.5' CL=7.7' TW, Uncut 2.25/9.5' CL=7.7' TW, Cut** 14.52/1.3' CL=1.1' TW, VG 3.06/1.5' CL=1.2' TW 4.46/1.4' CL=1.1' TW, VG
53-1278	New South Incl.	305.6 305.6	316.3 307.3	-57	339	1.96/10.7' CL=9.7' TW, Uncut 1.46/10.7' CL=9.7' TW, Cut** 10.34/1.7' CL=1.5' TW, VG
50-1065AW1	New South Incl. and Footwall Incl. and and and	2506.7 2513.9 2528.7 2559.7 2561.5 2563.5 2564.8 2565.9	2530.4 2514.9 2530.4 2566.9 2562.5 2564.8 2565.9 2566.9	-16	109	0.66/23.7' CL=9.5' TW 4.45/1.0' CL=0.4' TW, VG, Tell 4.56/1.7' CL=0.7' TW 26.25/7.2' CL=2.9' TW, Uncut 2.90/7.2' CL=2.9' TW, Cut* 29.28/1.0' CL=0.4' TW, VG, Tell 94.96/1.3' CL=0.5' TW, Tells 9.77/1.1' CL=0.4' TW, VG 19.99/1.0' CL=0.4' TW, VG, Tell
53-1220	HW New South New	308.5 354.0 686.0	312.5 361.5 688.5	-30	332	1.58/4.0' CL=?? TW 0.52/7.5' CL=6.5' TW 73.55/2.5' CL=2.5' TW, Tell
53-1214	New South Incl. Footwall	264.1 264.1 507.5	276.6 265.8 508.7	-47	271	0.48/12.5' CL=12.0' TW 1.97/1.7' CL=1.6' TW 2.40/1.2' CL=?? TW
53-1215	HW Incl. New South	272.8 277.8 305.3	278.9 278.9 320.8	-29	289	2.05/6.1' CL=5.3' TW, Uncut 1.47/6.1' CL=5.3' TW, Cut* 6.68/1.1' CL=1.0' TW, VG 0.07/15.5' CL
53-1216	New South Incl.	462.5 465.8	473.8 467.6	-13	298	1.44/11.3' CL=5.3' TW 3.42/1.8' CL=0.8' TW
53-1217	HW New South	281.8 357.5	284.2 372.1	-23	303	0.59/2.4' CL=2.0' TW 0.02/14.6' CL
53-1219	New South	355.8	358.0	-21	322	14.00/2.2' CL=1.4' TW, VG, Uncut

DRILL HOLE No.	ZONE	FROM (feet)	TO (feet)	HOLE DIP (degrees)	AZIMUTH (degrees)	ASSAY (oz per ton/feet)
						7.2/2.2' CL=1.4' TW, Cut**
53-1221	New South	334.0	341.1	-41	339	0.13/7.1' CL
53-1222	New South Incl.	358.2 358.2	371.7 360.0	-40	358	0.39/13.5' CL=11.2' TW 2.31/1.8' CL=1.5' TW, VG, Tell
50-1065AW	?? New South Footwall	2086.6 2578.4 2631.9	2093.1 2586.4 2632.9	-16	109	0.58/6.5' CL=?? TW 0.40/8.0' CL=3.1' TW 1.56/1.0' CL=0.5' TW, VG
53-1272	New South	403.0	406.0	-21	271	0.91/3.0' CL=1.9' TW, VG
53-1273	New HW New South	304.5 403.2	305.5 404.6	-20	289	0.62/1.0' CL=0.6' TW 0.10/1.4' CL
53-1274	New South	265.8	273.7	-58	289	0.04/7.9' CL
53-1275	New South Incl. and	515.7 515.7 523.6	525.1 517.2 525.1	-7	312	4.71/9.4' CL=4.7' TW, Uncut 2.70/9.4' CL=4.7' TW, Cut** 5.67/1.5' CL=0.7' TW 19.82/1.5' CL=0.7' TW, VG, Tell
53-1276	New South Incl. and New Footwall	432.4 432.4 440.0 467.5	441.7 434.8 441.7 468.5	-13	312	3.39/9.3' CL=5.4' TW, Uncut 3.28/9.3' CL=5.4' TW, Cut** 7.64/2.4' CL=1.4' TW, VG 6.36/1.7' CL=1.0' TW, VG, Tell 37.79/1.0' CL=?? TW, VG, Tell
53-1277	New South Incl. and New Footwall	464.5 465.9 502.6 660.9	504.0 467.3 504.0 665.1	-16	339	0.90/39.5' CL=26.3' TW, Uncut 0.63/39.5' CL=26.3' TW, Cut** 14.65/1.4' CL=0.9' TW, VG 4.55/1.4' CL=0.9' TW, VG 0.75/4.2' CL=?? TW

TW = True Width, **CL** = Core Length, **VG** = Visible Gold, Tell = Tellurides, ***Cut** = cut to 3.5 opt, ****Cut** = cut to 7.2 opt, ?? **TW** = Unknown True Width

The following table summarizes 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)
53-1279	New HW New South Incl. and and and and	80.8 90.6 90.6 91.9 93.0 93.3 93.7	82.3 95.2 91.2 92.5 93.3 93.7 94.3	-76	339	20.23/1.5m CL=?? TW 814.29/4.6m CL=4.3m TW, Uncut 123.43/4.6m=4.3m TW, Cut** 544.80/0.6m CL=0.3m TW, VG 615.78/0.9m CL=0.5m TW, VG 957.61/0.3m CL=0.3m TW, VG, Tell 6,600.06/0.4m CL=0.4m TW, VG 144.34/0.6m CL=0.5m TW
53-1218	New South Incl.	81.4 82.2	82.9 82.9	-49	312	67.89/1.5m CL=1.5m TW 124.46/0.7m CL=0.7m TW, VG
53-1223	New South Incl. and and	92.2 92.2 93.8 94.7	95.1 92.6 94.2 95.1	-58	007	111.43/2.9m CL=2.3m TW, Uncut 77.14/2.9m CL=2.3m TW, Cut** 497.83/0.4m CL=0.3m TW, VG 104.92/0.4m CL=0.4m TW 152.92/0.4m CL=0.3m TW, VG
53-1278	New South Incl.	93.2 93.2	96.4 93.7	-57	339	67.20/3.2m CL=3.3m TW, Uncut 50.06/3.2m CL=3.3m TW, Cut** 354.52/0.5m CL=0.5m TW, VG
50-1065AW1	New South	764.2	771.5	-16	109	22.63/7.3m CL=2.9m TW

DRILL HOLE No.	ZONE	FROM (m)	TO (m)	HOLE DIP (degrees)	AZIMUTH (degrees)	ASSAY (grams per tonne/m)
	Incl. and Footwall	766.4 770.9 780.2	766.7 771.5 782.6			152.57/0.3m CL=0.1m TW, VG, Tell 156.34/0.6m CL=0.2m TW 900.00/2.4m CL=0.9m TW, Uncut 99.42/2.4m CL=0.9m TW, Cut* 1,003.89/9.4m CL=0.4' TW, VG, 3,255.80/0.4m CL=0.2m TW, Tell 334.97/0.3m CL=0.1m TW, VG 685.38/0.3m CL=0.1m TW, VG, Tell
	Incl. and and and	780.9 781.6 782.0 782.3	781.3 782.0 782.3 782.6			
53-1220	HW New South New	94.1 107.9 209.1	95.3 110.2 209.9	-30	332	54.17/1.2m CL=?? TW 17.83/2.3m CL=1.0m TW 2,521.74/0.8m CL=0.8m TW, Tell
53-1214	New South Incl. Footwall	80.5 80.5 154.7	84.3 81.0 155.1	-47	271	16.46/3.8m CL=3.7m TW 67.54/0.5m CL=0.5m TW 82.29/0.4m CL=?? TW
53-1215	HW Incl. New South	83.2 84.7 93.1	85.0 85.0 97.8	-29	289	70.29/1.8m CL=1.6M TW, Uncut 50.40/1.8m=1.6m TW, Cut* 229.03/0.3m CL=0.3m TW, VG 2.40/4.7m CL
53-1216	New South Incl.	141.0 142.0	144.5 142.6	-13	298	49.38/3.5m CL=1.6m TW 117.26/0.6m CL=0.2m TW
53-1217	HW New South	85.9 109.0	86.6 113.4	-23	303	20.23/0.7m CL=0.6m TW 0.69/4.4m CL
53-1219	New South	108.5	109.1	-21	322	480.00/0.6m CL=0.4m TW, Uncut 246.86/0.6m CL=0.4m TW, Cut**
53-1221	New South	101.8	104.0	-41	339	4.46/2.2m CL
53-1222	New South Incl.	109.2 109.2	113.3 109.8	-40	358	13.37/4.1m CL=3.4m TW 79.20/0.6m CL=0.5m TW, VG, Tell
50-1065AW	New HW New South Footwall	636.2 786.1 802.4	638.1 788.5 802.7	-16	109	19.88/1.9m CL=?? TW 13.71/2.4m CL=0.9m TW 53.49/0.3m CL=0.2m TW, VG
53-1272	New South	122.9	123.8	-21	271	31.20/0.9m CL=0.6m TW, VG
53-1273	New HW New South	92.8 122.9	93.1 123.4	-20	289	21.23/0.3m CL=0.2m TW 3.43/0.5m CL
53-1274	New South	81.0	83.4	-58	289	1.37/2.4m CL
53-1275	New South Incl. and	157.2 157.2 159.6	160.1 157.7 160.1	-7	312	161.49/2.9m CL=1.4m TW, Uncut 92.57/2.9m CL=1.4m TW, Cut** 194.40/0.5m CL=0.2m TW 679.55/0.5m CL=0.2m TW, VG, Tell
53-1276	New South Incl. and New Footwall	131.8 131.8 134.1 142.5	134.7 132.6 134.7 142.8	-13	312	116.23/2.9m CL=1.6m TW, Uncut 112.46/2.9m CL=1.6m TW, Cut** 261.94/0.8m CL=0.4m TW, VG 218.06/0.6m CL=0.3m TW, VG, Tell 1,295.67/0.3m CL=?? TW, VG, Tell
53-1277	New South Incl. and New Footwall	141.6 142.0 153.2 201.5	153.7 142.5 153.7 202.8	-16	339	30.86/12.1m CL=8.0m TW, Uncut 21.60/12.1m CL=8.0m TW, Cut** 502.29/0.5m CL=0.3m TW, VG 156.00/0.5m CL=0.3m TW, VG 25.71/1.3m CL=?? TW

TW = True Width, CL = Core Length, VG = Visible Gold, Tell = Tellurides *CUT = cut to 120.0 grams/tonne, ** CUT = cut to 247 grams/tonne, ?? TW = Unknown True Width

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.

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.

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 one half of the core samples shipped to the Swastika Laboratories in Swastika, Ontario, Polymet Resources Inc. in Cobalt, Ontario. 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 and rejects at alternate certified labs. 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.

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 the New South Mine Complex, Macassa Mine, Kirkland Lake, Ontario* dated August 25, 2007.
- *Review of Resources and Reserves of Macassa Mine, Kirkland Lake, Ontario* dated July 15, 2008.

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

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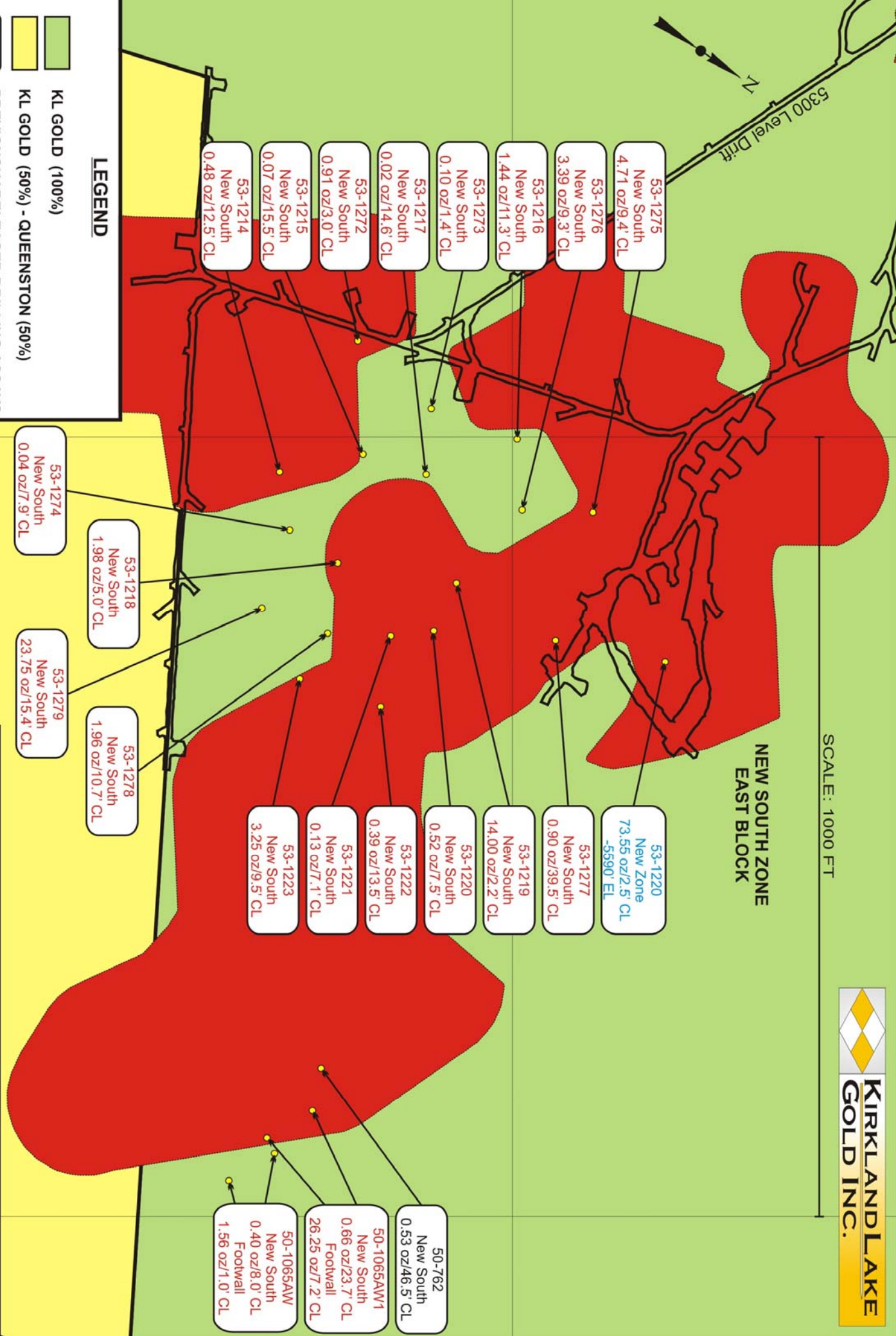
Neither the Toronto Stock Exchange nor the AIM Market of the London Stock Exchange has reviewed and neither accepts responsibility for the adequacy or accuracy of this news release.

Cautionary Note Regarding Forward Looking Statements

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.

SCALE: 1000 FT

**NEW SOUTH ZONE
EAST BLOCK**



LEGEND

KL GOLD (100%)

KL GOLD (50%) - QUEENSTON (50%)

PREVIOUSLY RELEASED DRILLING ASSAYS
IN OZ/TON OVER CORE LENGTH (uncut)

RECENT DRILLING ASSAYS IN OZ/TON
OVER CORE LENGTH (uncut)

CL
CORE LENGTH

FIGURE 1

**PLAN VIEW SHOWING RECENT DRILL HOLE
RESULTS FROM THE SOUTH MINE COMPLEX,
KIRKLAND LAKE, ONTARIO**

JUNE 23, 2009