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Symbol – TSX & AIM: **KGI**

September 29, 2009

Additional High-Grade Gold Intersections on New Deep Discovery

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 include further testing of the new discovery located 700 feet below the SMC.

“Follow-up drilling on the new discovery below the SMC is encouraging and we are now able to verify the geometry on this new zone, which we have designated as the Lower SMC.” said Stewart Carmichael, Chief Exploration Geologist. He added, “With additional development recently completed, we are in a position to dedicate at least one of our electric drills to further test this zone for the remainder of the year.”

The highlights of this recent drilling include:

- Drill hole 53-1319 assayed 4.45 ounces of gold per ton (opt) uncut (1.24 opt cut) over a true width of 4.1 feet on the Lower SMC, and included 15.27 opt over a true width of 1.1 feet. This drill hole is located 100 feet west and 41 feet above previously released drill hole 53-1280 (1.00 opt uncut (0.71 opt cut) over a core length of 21.8 feet or 15.6 feet true width. (See the Company’s news release dated April 29, 2009)
- Drill hole 53-1318 has intersected the same zone 413 feet above hole 53-1319 and assayed 4.49 opt uncut (2.13 opt cut) over a true width of 2.7 feet. Drill hole 53-1317 located 156 feet below and 89 feet east of 53-1318 was weak and assayed 0.02 opt over 1.0 feet core length. This would indicate the new mineralization will likely have a distinct plunge(s) governing the geometry. The mineralization has been confirmed as dipping steeply south at 60 degrees, making it the steepest dipping zone to date related to the SMC. It may represent the down-dip steepening and extension of the Lower D North Zone, however, this remains to be verified. [\(see figures 1 and 2\)](#)
- Drill hole 53-1320 has intersected the Lower SMC 125 feet below 53-1319 at the -6475 elevation and assayed 1.97 opt over a true width of 3.5 feet. This intersection is the deepest to date on the Lower SMC.

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 section showing the latest drilling results on the Lower SMC. Figure 2 is a longitudinal section showing the latest results on the Lower SMC.

The following table summarizes the latest drilling program on the Lower SMC (Imperial values) and includes previously released drill holes 53-1280 (discovery hole) and 53-1170 with calculated true widths.

DRILL HOLE No.	ZONE	FROM (feet)	TO (feet)	HOLE DIP (degrees)	AZIMUTH (degrees)	ASSAY (oz per ton/feet)
53-1319	Lower SMC Incl.	1,148.8 1,152.8	1,154.3 1,154.3	-73	306	4.45/5.5' CL=4.1' TW, Uncut 1.24/5.5' CL=4.1' TW, Cut* 15.27/1.5' CL=1.1' TW, VG
53-1280	Lower SMC Incl. and and	1,164.5 1,164.5 1,183.3 1,184.8	1,186.3 1,166.5 1,184.8 1,186.3	-73	328	1.00/21.8' CL=15.6' TW, Uncut 0.71/21.8' CL=15.6' TW, Cut* 1.62/2.0' CL=1.4' TW, VG 7.29/1.5' CL=1.1' TW, VG 4.02/1.5' CL=1.1' TW, VG
53-1170	Lower SMC	1,202.1	1,203.3	-65	275	1.27/1.2' CL=0.9' TW
53-1317	Lower SMC	959.5	960.5	-60	322	0.02/1.0' CL=0.9' TW
53-1316	Lower SMC	1063.0	1069.0	-68	332	1.14/6.0' CL=4.7' TW
53-1321	Lower SMC	1151.0	1155.3	-66	285	0.05/4.3' CL=3.1' TW
53-1318	Lower SMC Incl.	874.4 874.4	877.3 875.6	-50	322	4.49/2.9' CL=2.7' TW, Uncut 2.13/2.9' CL=2.7' TW, Cut* 9.21/1.2' CL=1.1' TW, VG
53-1320	Lower SMC	1264.0	1270.0	-70	294	1.97/6.0' CL=3.5' TW
53-1370	Lower SMC Incl.	1068.9 1073.3	1074.6 1074.6	-67	307	0.86/5.7' CL=4.3' TW 3.16/1.3' CL=1.0' TW

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

The following table summarizes the latest drilling program on the Lower SMC (Metric values) and includes previously released drill holes 53-1280 (discovery hole) and 53-1170 with calculated true widths.

DRILL HOLE No.	ZONE	FROM (m)	TO (m)	HOLE DIP (degrees)	AZIMUTH (degrees)	ASSAY (grams per tonne/m)
53-1319	Lower SMC Incl.	350.2 351.5	351.9 351.9	-73	306	152.57/1.7m CL=1.3m TW, Uncut 42.51/1.7m CL=1.3m TW, Cut* 525.55/0.4m CL=0.3m TW, VG
53-1280	Lower SMC Incl. and and	355.0 355.0 360.7 361.2	361.7 356.6 361.2 361.7	-73	328	34.29/6.7m CL=4.8m TW, Uncut 24.34/6.7m CL=4.8m TW, Cut* 55.54/0.6m CL=0.4m TW, VG 249.94/0.5m CL=0.3m TW, VG 137.83/0.5m CL=0.3m TW, VG
53-1170	Lower SMC	366.5	366.9	-65	275	43.54/0.4m CL=0.3m TW
53-1317	Lower SMC	292.5	292.8	-60	322	0.69/0.3m CL=0.3m TW
53-1316	Lower SMC	324.1	325.9	-68	332	39.09/1.8m CL=1.4m TW
53-1321	Lower SMC	350.9	352.2	-66	285	1.71/1.3m CL=0.9m TW
53-1318	Lower SMC Incl.	266.6 266.6	267.5 267.0	-50	322	153.94/0.9m CL=0.8m TW, Uncut 73.03/0.9m CL=0.8m TW, Cut* 315.77/0.4m CL=0.3m TW, VG
53-1320	Lower SMC	385.4	387.2	-70	294	67.54/1.8m CL=1.1m TW
53-1370	Lower SMC Incl.	325.9 327.2	327.6 327.6	-67	307	29.49/1.7m CL=1.3m TW 108.34/0.4m CL=0.3m TW

TW = True Width, **CL** = Core Length, **VG** = Visible Gold, Tell = Tellurides ***CUT** = cut to 120.0 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 Macassa Mine, Kirkland Lake, Ontario* dated July 15, 2008.
- *Review of Resources and Reserves of Macassa Mine, Kirkland Lake, Ontario* dated July 16, 2009

Both of these technical reports have been filed on SEDAR (www.sedar.com). For further information, please contact:

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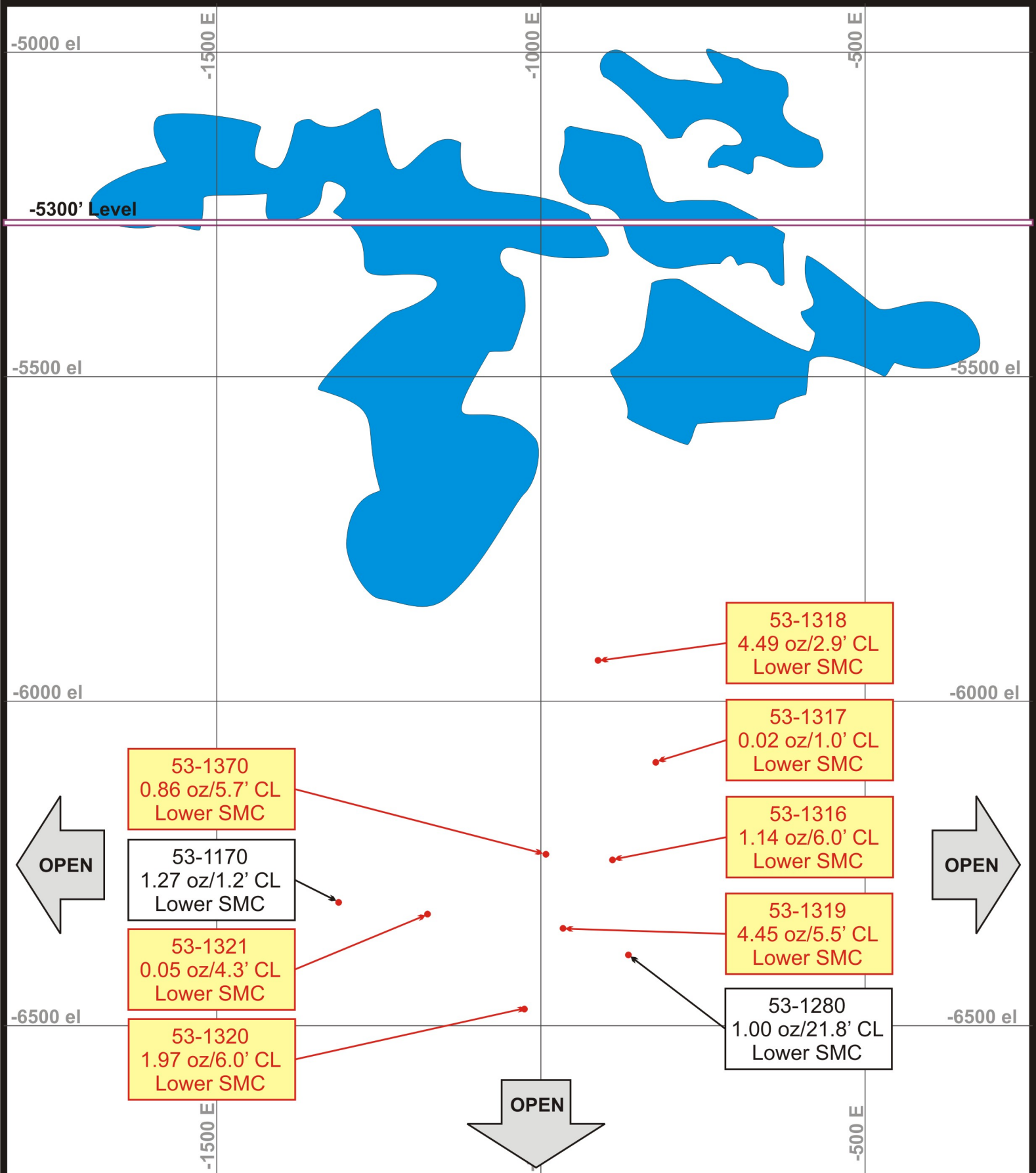
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Neither the Toronto Stock Exchange nor the AIM Market of the London Stock Exchange has reviewed and neither accepts responsibility for the adequacy or accuracy of this news release.

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.



LEGEND

CL CORE LENGTH

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

RECENT DRILLING ASSAYS IN OZ/TON OVERCORE LENGTH (uncut)

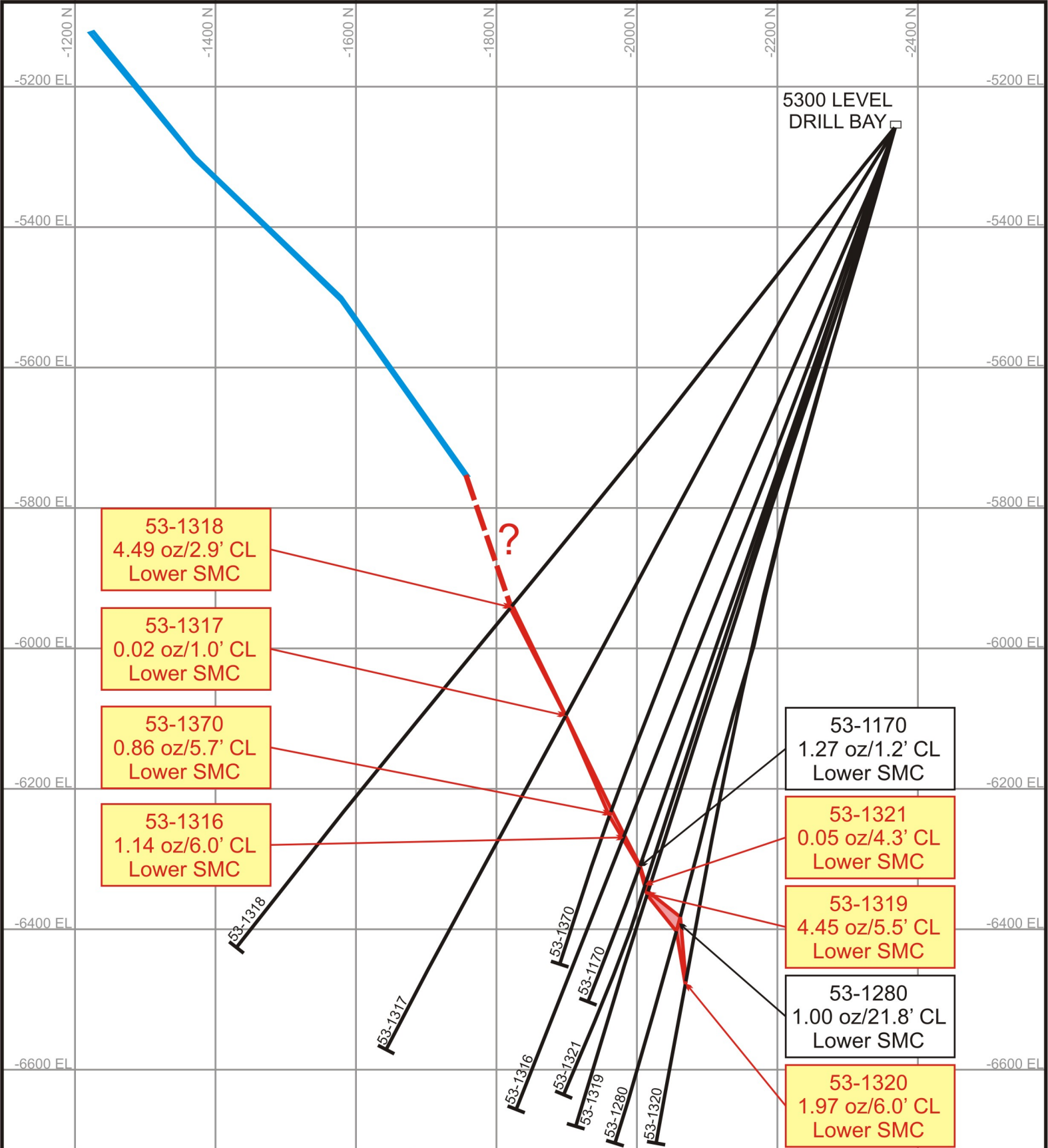
APPROXIMATE LOWER D NORTH OUTLINE

LONG SECTION VIEW LOOKING SHOWING RECENT DRILL HOLE INTERSECTIONS ON LOWER SMC ZONE #3 SHAFT AREA, KIRKLAND LAKE GOLD INC, KIRKLAND LAKE, ONTARIO



KIRKLAND LAKE GOLD INC.

**FIGURE 1
SEPT. 29, 2009**



LEGEND

- CL CORE LENGTH
- PREVIOUSLY RELEASED DRILLING ASSAYS IN OZ/TON OVERCORE LENGTH (uncut)
- RECENT DRILLING ASSAYS IN OZ/TON OVER CORE LENGTH (uncut)
- APPROXIMATE LOWER D NORTH OUTLINE
- APPROXIMATE LOWER SMC OUTLINE

SECTION VIEW LOOKING EAST SHOWING RECENT DRILL HOLE INTERSECTIONS ON LOWER SMC ZONE #3 SHAFT AREA, KIRKLAND LAKE GOLD INC, KIRKLAND LAKE, ONTARIO



**FIGURE 2
SEPT. 29, 2009**