REPORT ON DIAMOND DRILLING
LAKESHORE MINE PROPERTY
TECK TOWNSHIP
DISTRICT OF TIMISKAMING, ONT.
BY KIRKLAND LAKE GOLD INC.

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S. J. Carmichael, P.Geo
Kirkland Lake Gold Inc.

April 27, 2012

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TABLE OF CONTENTS

	Page
Introduction	2
Property Location and Access	2
Land Tenure and Ownership	3
Regional Geology	6
Exploration History	7
Mineralization	8
2012 Diamond Drilling Program	8
Summary of Results	10
Summary and Conclusions	10

LIST OF FIGURES

	Page
Figure 1 – General Location Plan	2
Figure 2 – Claim Location Plan	5
Figure 3 – Regional Geology Plan	6
Figure 4 – Property Geology Plan	8

LIST OF APPENDICES

Appendix A – Summary of Expenditures
Appendix B – References
Appendix C – Statement of Qualifications
Appendix D – Diamond drill Logs and Assay Certificates

LIST OF DRAWINGS

Drawing No. 1 – Drill Hole Location Plan, Scale: 1"=100 ft.
Drawing No. 2 – Drill Hole Section 0+00 East, Scale 1"=100 ft.

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Introduction

The following report describes a 2 hole, 1,550 foot, diamond drilling program completed in April 2012. Both drill holes were completed from surface on the Lakeshore mine property to test the `05/Narrows Break north of the Main Break. The drilling was completed by Cabo Diamond Drilling with logging completed by Kirkland Lake Gold geologists and assaying by Swastika Laboratories. All core is stored on pallets at the Macassa #3 shaft site.

Property Location and Access

The area tested forms part of the main patented claims held by Kirkland Lake Gold Inc. Drilling was performed on one patented mining claim on the Lakeshore mine property (P-2606). Access to the drill area is by the Lakeshore mine property, through the Al Wende Ave. access gate. The site is located approximately 200 feet northeast of the former Lakeshore #5 shaft. The following report will be used to apply assessment credits to the staked portion of the Kirkland Lake Gold Inc. property, in particular claims 4252740 & 4252741.

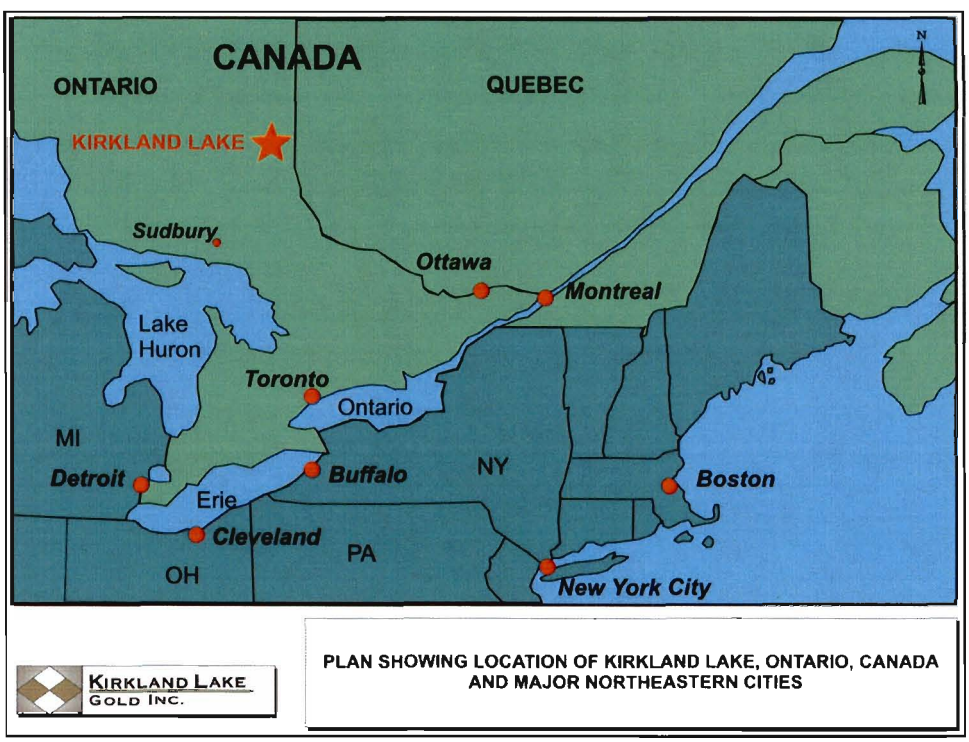


FIGURE 1 – GENERAL LOCATION PLAN



Looking East toward the Lakeshore Property from #3 Shaft, Macassa Mine

Land Tenure and Ownership

The Kirkland Lake Gold Inc. property comprises 174 patented claims covering 7892 acres, 5 Crown Leases covering 544 acres and 47 staked claims. All of the above are located in Teck and Lebel Townships. 38 of the staked claims are located in Teck Township and are contiguous with the patented claim group. The drill program detailed in this report was within patented mining claim P-2606 (14.5 Ha).

The staked claims, most of which are located north of the Macassa property in Teck Township, comprises 38 staked contiguous mining claims (71 units) with a total area of approximately 1,000 hectares or 2760 acres. All claims are registered to Kirkland Lake Gold Inc. and are in good standing. The claims include:

CLAIM NO.	UNITS	DATE STAKED	APPLIED	BANK	DUE DATE
1045619	1	Aug. 11, 1988	$10,400	$0	$400 by Aug. 11, 2015
1045623	1	Oct. 7, 1988	$10,400	$0	$400 by Oct. 7, 2015
1049049	1	Oct. 28, 1988	$10,400	$0	$400 by Oct. 28, 2015
1213913	1	March 20, 1996	$6,800	$0	$400 by March 20, 2015

CLAIM NO.	UNITS	DATE STAKED	APPLIED	BANK	DUE DATE
1213914	3	June 13, 1996	$20,400	$0	$1,200 by June 13, 2015
1214100	1	Oct. 4, 1996	$6,800	$458	$400 by Oct. 4, 2015
1214365	2	June 13, 1996	$13,600	$2,428	$800 by June 13, 2015
1214366	1	June 13, 1996	$6,800	$0	$400 by June 13, 2015
1214367	2	June 13, 1996	$13,600	$0	$800 by June 13, 2015
1214368	1	June 13, 1996	$6,800	$0	$400 by June 13, 2015
1214369	3	June 13, 1996	$20,400	$0	$1,200 by June 13, 2015
1214370	1	June 17, 1996	$6,800	$0	$400 by June 17, 2015
1214371	2	June 13, 1996	$13,600	$0	$800 by June 13, 2015
1214372	2	June 13, 1996	$13,600	$118	$800 by June 13, 2015
1214373	4	June 13, 1996	$27,200	$0	$1,600 by June 13, 2015
1214374	2	June 13, 1996	$13,600	$788	$800 by June 13, 2015
1217446	1	June 13, 1996	$6,800	$239	$400 by June 13, 2015
1217447	3	June 13, 1996	$20,400	$0	$1,200 by June 13, 2015
1217448	2	June 13, 1996	$13,600	$63	$800 by June 13, 2015
1217450	4	Aug. 1, 1996	$27,200	$0	$1,600 by Aug. 1, 2015
1217451	4	Aug. 1, 1996	$27200	$62	$1,600 by Aug. 1, 2015
1217452	1	July 18, 1996	$6,800	$399	$400 by July 18, 2015
1217455	1	July 18, 1996	$6,800	$799	$400 by July 18, 2015
1217479	4	Aug. 1, 1996	$27,200	$1,065	$1,600 by Aug. 1, 2015
1217759	4	Oct. 4, 1996	$27,200	$0	$1,600 by Oct. 4, 2015
1219980	1	Oct. 4, 1996	$6,800	$399	$400 by Dec. 12, 2015
1219981	6	Dec. 12, 1996	$40,800	$700	$2,400 by Dec. 12, 2015
1221710	2	Dec. 30, 1996	$13,600	$0	$800 by Dec. 30, 2015
1222104	1	May 5, 1997	$6,400	$0	$400 by May 5, 2015
1222105	1	May 5, 1997	$6,400	$394	$400 by May 5, 2015
3011230	1	June 17, 2003	$4,000	$0	$400 by June 17, 2015
4210208	1	June 1, 2006	$2,800	$0	$400 by June 1, 2015
4240384	1	June 4, 2008	$2,000	$0	$400 by June 4, 2015
4245807	1	Oct. 16, 2008	$2,000	$0	$400 by Oct. 16, 2015
4252740	1	June 2, 2010	$0	$0	$400 by June 2, 2012
4252741	1	May 7, 2010	$0	$0	$400 by May 7, 2012
859695	1	Nov. 7, 1985	$11,600	$0	$400 by Nov. 7, 2015
983045	1	Dec. 16, 1987	$10,800	$5,988	$400 by Dec. 16, 2015

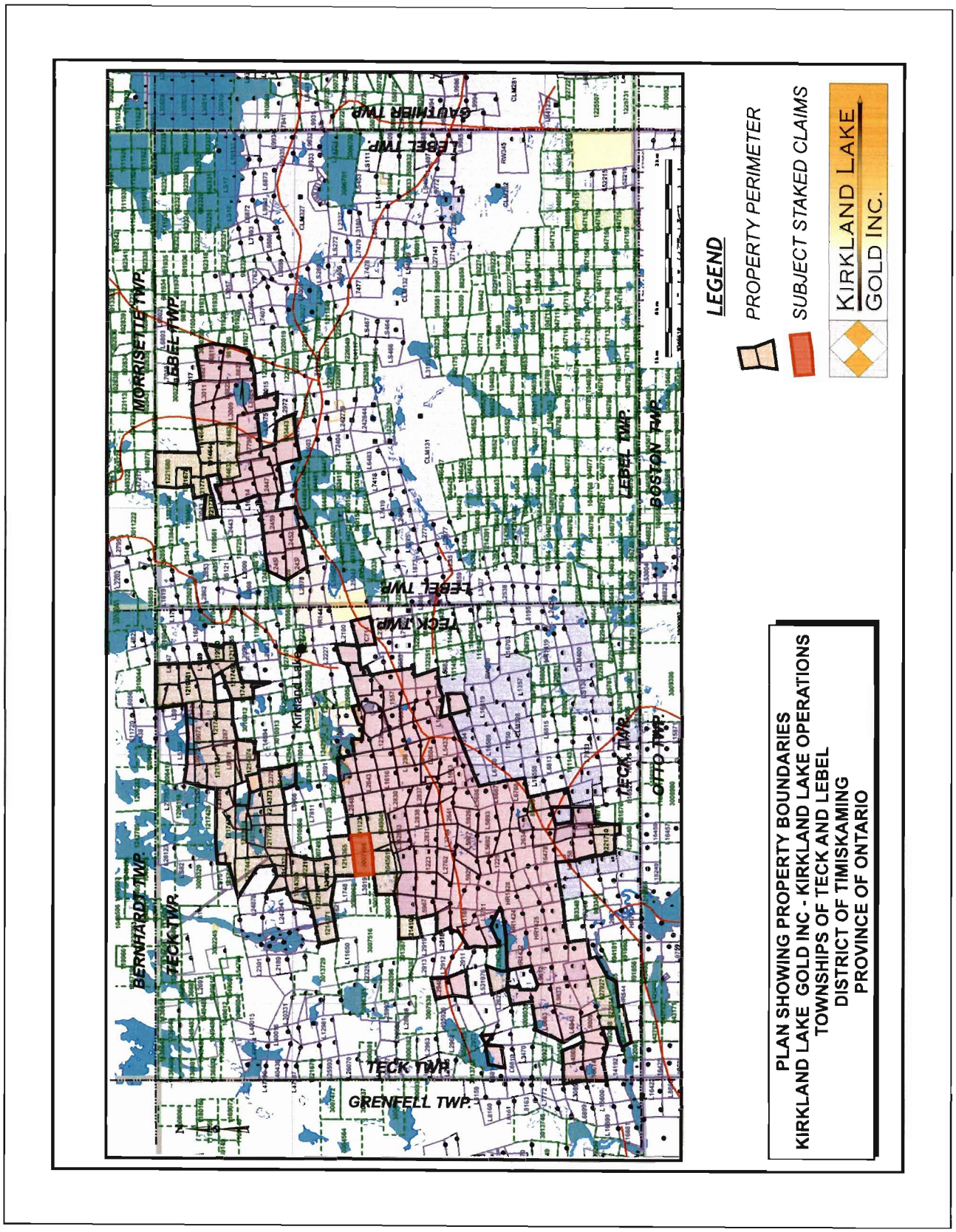


FIGURE 2 – CLAIM LOCATION PLAN

Regional Geology

The Kirkland Lake mining camp is located in the west portion of the Archean Abitibi greenstone belt of the Abitibi Subprovince. The Timiskaming Group of rocks is the main feature of the Kirkland Lake area. It is up to 10,500 feet thick and extends for about 40 miles from Kenogami Lake in the west to the Quebec border in the east. In the Kirkland Lake area, the Timiskaming is predominantly comprised of conglomerates, greywackes, trachytic lava flows and alkalic tuffs. The Timiskaming trends N65^0 E and dips steeply south in the Kirkland Lake area. The Timiskaming sediments are intruded by strike parallel to shallow discordant augite syenite, feldspar porphyry and minor late diabase dykes. The intrusives tend to be steeper dipping than the sediments. Mineralization is known to occur in both the sediments and intrusives, though the syenites are the preferential host.

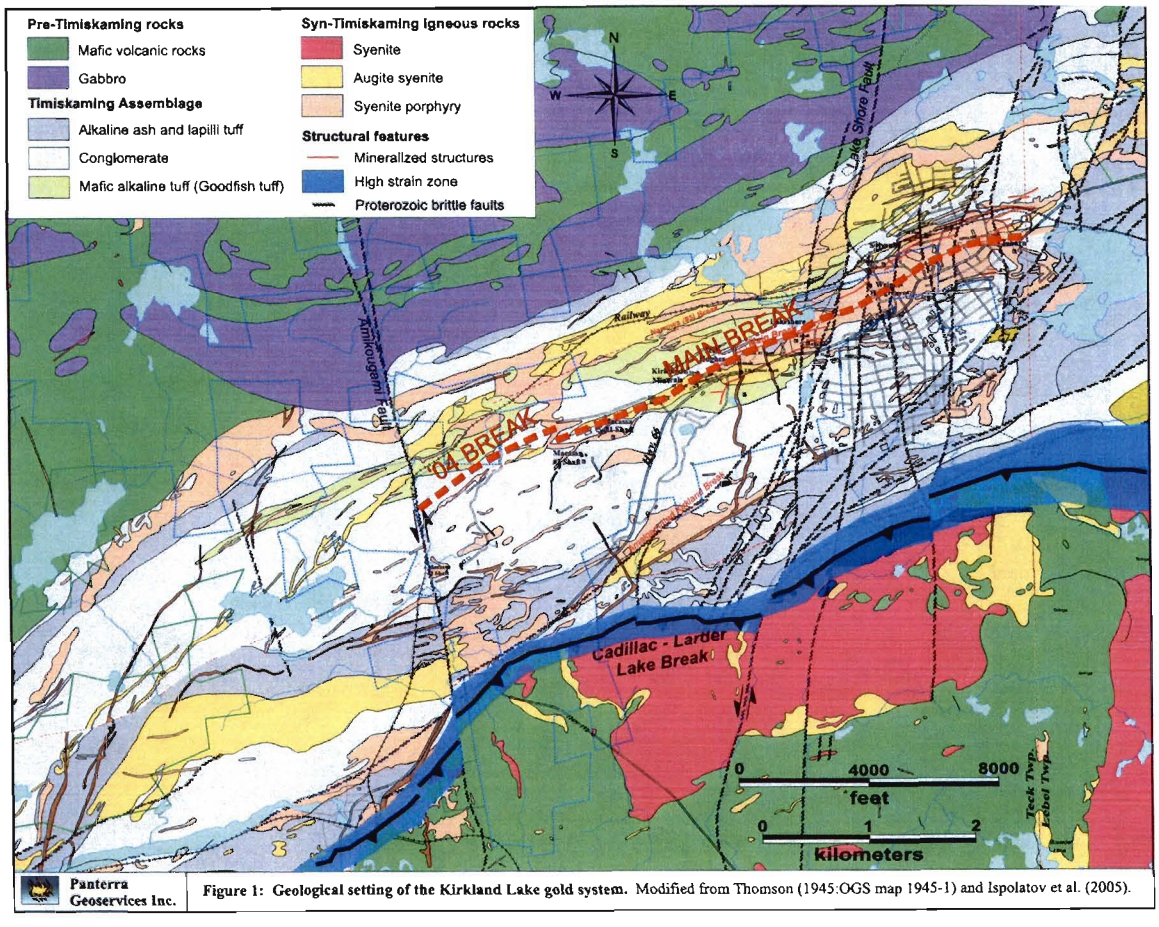


Figure 1: Geological setting of the Kirkland Lake gold system. Modified from Thomson (1945:OGS map 1945-1) and Ispolatov et al. (2005).

FIGURE 3 - REGIONAL GEOLOGY

Exploration History

The Narrows Break lies approximately 1,800-2,000 feet north of the Main Break and has been traced over a strike length of at least 13,000 feet from the Macassa (where it is termed the `05 Break, 1,400 feet north of the `04 Break) property on the west to the Toburn property on the east and has been found from surface to at least the -7000 foot level at the Macassa mine where the Narrows Break has been termed the `05 Break. It is offset at the -1,500 foot level by the north dipping #1 Thrust Fault, south side down 500 to 600 feet.

Underground exploration on the structure includes the former Wright Hargreaves, Lakeshore, Teck Hughes and Macassa properties. The North "A" vein of Sylvanite and the No. 9 vein of Wright Hargreaves have been identified as the Narrows Break by Thomson (1950).

Early diamond drilling is poorly recorded and drill logs or assays are not available for most holes. Underground sampling on the 3075 foot level of Lakeshore (3053 Dr W) indicates potentially economic gold mineralization with the best being the #4 shoot with an indicated grade of 0.47 ounces per ton (opt) Au over a width of 4.7 feet and a distance of 114 feet.

In the late 1980's Teck Corporation and Newfields Minerals Inc. completed a total of 135 diamond drill holes and 175 feet of drifting on the Narrows Break on the former Teck Hughes property. Underground exploration yielded generally disappointing results.

Lac Minerals undertook surface diamond drilling programs in both 1988 and again in 1992 to evaluate the near surface potential of the Narrows Break on Macassa ground.

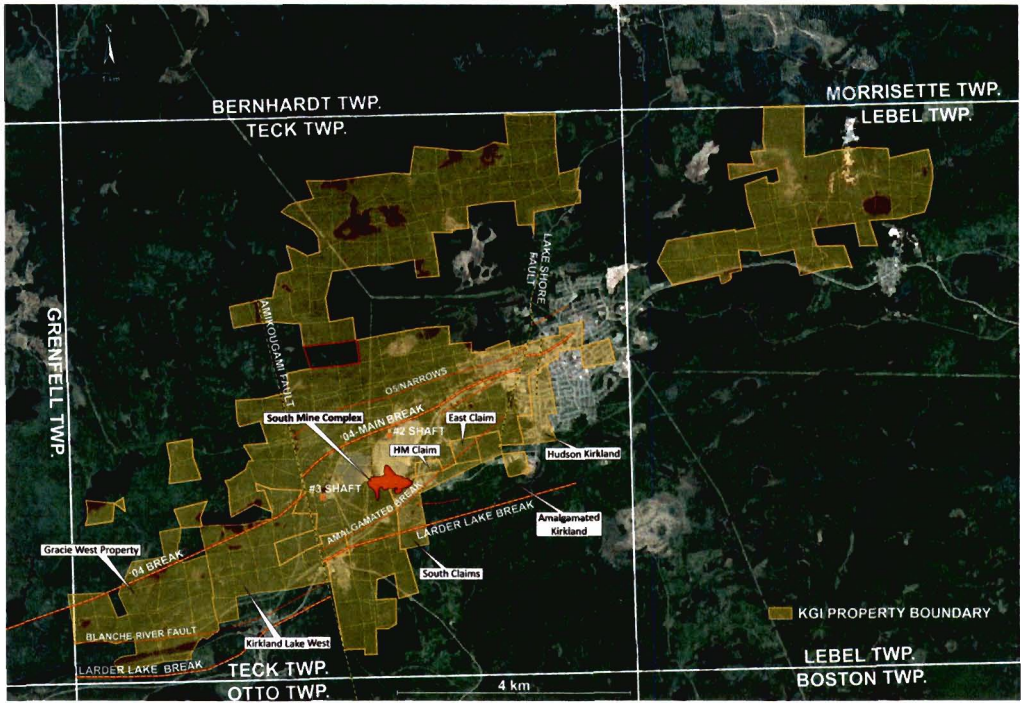


FIGURE 4 – PROPERTY HOLDINGS & ORE STRUCTURES

Mineralization

The Narrows Break at Lakeshore is hosted consistently within a broad augite syenite body locally termed basic syenite. The Narrows Break is generally a steep south-dipping zone of ductile chlorite shearing rather than the typical Break structures found throughout the Kirkland Lake camp. Quartz veining is generally patchy and a minor constituent. There is a correlation between gold grade and pyrite content; up to 10% pyrite over narrow intervals is indicative of higher gold tenure, especially when accompanied with weak silicification. Visible gold is rare, as are tellurides and molybdenite.

2012 Diamond Drilling Summary

Both BQ size diamond drill holes were collared approximately 200 feet northeast of the former Lakeshore #5 shaft, within patented mining claim P-2606. Down-hole surveys using a Reflex EZ-Shot instrument were taken at 200 foot intervals to determine the azimuth and dip of each drill hole.
All core was logged at the Macassa #3 Shaft core shack. Samples for assay testing were split and one half was sent to Swastika laboratories with the remaining half of the core retained for future reference. All core is stored at the Macassa #3 Shaft storage facility. The drill holes are summarized as follows:

DRILL HOLE	CLAIM	NORTHING	EASTING	ELEVATION	AZIMUTH	DIP	LENGTH
N-12-19	P-2606	5333393 N	571006 E	311 m	341	-58	1,250'
N-12-20	P-2606	5333393 N	571006 E	311 m	341	-64	1,300'
							2,550'



Maxi Hydraulic Drill, Lakeshore Mine Property

Summary of Results

The main lithologies intersected were intrusive in nature and included a medium to coarse grained augite syenite (basic syenite) and varied porphyritic syenite units. Hole N-12-19 also intersected a sedimentary conglomerate unit (Timiskaming Assemblage). This sedimentary unit was not seen in hole N-12-20. The Narrows/`05 Zone was not intersected in either hole and both holes lacked any significant structure or mineralization. Assay values for both holes were still pending at the time of this report.

Hole No.	Zone	Intersection	Grade (opt)
N-12-19	Narrows	No significant structure or mineralization	Pending
N-12-20	Narrows	No significant structure or mineralization	Pending

Summary and Conclusions

The `05/Narrows Zone represents a largely unexplored mineralized structure throughout the camp. The current round of drilling did not result in any significant mineralization, however, further diamond drilling is recommended generally west of the current program on the Kirkland Minerals property.

Respectfully Submitted

Stewart Carmichael, B.Sc., P.Geo.
Chief Exploration Geologist

PROFESSIONAL GEOSCIENTIST
STEWART J. CARMICHAEL
PRACTISING MEMBER
0455
ONTARIO

Appendix A – Summary of Expenditures

Footage Summary by Claim

Hole No.	Claim P-2606
N-12-19	0-1,250' (1,250')
N-12-20	0-1,300' (1,300')
TOTAL	**2,550'**

Drilling Cost by Claim

Hole No.	Claim P-2606
N-12-19	$28,159.00
N-12-20	$28,278.00
TOTAL	**$56,437.00**

Supervision/Logging/Labor Cost by Claim

	Claim P-2606
Supervision	$5,000.00
TOTAL	**$5,000.00**

Total Value of Expenditures per Claim

	Claim P-2606
Drilling	$56,437.00
Core Boxes	$1,185.75
Labor	$5,000.00
TOTAL	**$62,622.75**

Summary of Expenses

Drilling:		$56,437.00
Core Boxes:	255 @ $4.65/tray	$1,185.75
Logging/Labor/Supervision/Report:		$5,000.00
TOTAL:		**$62,622.75**

The maximum value of work which can be assigned in any given year from the patented mining claims is as follows:

P-2606 (14.5 Ha)	$1,500.00/Ha	$21,750.00

Appendix B – References

Charlewood, G.H.
1964, Geology of Deep Development on the Main Ore Zone at Kirkland Lake: Ontario Department of Mines, Geological Circular No. 11, 49 p.

Hawley, J.E.
1950, Mineralogy of the Kirkland Lake Ores: Ontario Department of Mines, Annual Report for 1948, v. 57, pt. 5, pp 108-124.

Ispolatov, V., Lafrance, B., Dube, B., Hamilton, M. and Creaser, R. 2005
Geology, structure, and gold mineralization, Kirkland Lake and Larder Lake areas (Gauthier and Teck townships): Discover Abitibi Initiative; Ontario Geological Survey, open File Report 6159, 170p.

Thomson, J.E.
1950, Geology of Teck Township and the Kenogami Lake area: Ontario Department of Mines, Annual Report for 1948, v. 57, pt. 5, pp. 1-53, accompanied by maps 1945-1 and 1946-2, scale 1:12,000 or 1: to 1,000 feet.

Various assessment files on record at the Resident Geologists Office, Kirkland Lake

Appendix C – Certificate of Qualifications

STEWART CARMICHAEL, P.GEO.

I, Stewart Carmichael, P.Geo, do hereby certify that:

1. I am currently employed as the Chief Exploration Geologist by:
   Kirkland Lake Gold Inc.
   P.O.Box 370
   Kirkland Lake, Ontario, Canada
   P2N 3J1

2. I graduated with a Bachelor of Science degree, from McMaster University in 1982.

3. I am a member of the Association of Professional Geoscientists of Ontario, member 0455.

4. I have worked as a geologist for a total of 27 years since my graduation from university.

5. I have been employed at the Macassa Mine property since April, 2002.

6. I have made use of internal documents and files as well as files at the Ministry of Northern Development and Mines, Kirkland Lake.

Dated this 27th Day of April, 2012

(Signed)



Stewart Carmichael, P.Geo.
Chief Exploration Geologist

Appendix D – Diamond Drill Logs

KIRKLAND LAKE GOLD INC.

Diamond Drill Log Report

Apr 27, 2012

Hole Name: N-12-20

Engineering Coordinates

Easting:	12490.000
Northing:	11877.000
Elevation:	11045.000

Geology Grid

Section:	0+00
Northing:	3+45
Level:	Surface

Date Logged:	4/24/2012	***Azimuth:***	341.000	***Drilled By:***	Cabo Drilling Corp.
Logged by:	C. Kodors	***Dip:***	-64.00	***Drill:***	Maxi #2
Units:	Feet	***EOH:***	1300.000	***Size:***	BQ

Location:	Lakeshore Basin	***Township:***	Teck	***Drilling Starts:***	4/13/2012 8:43:56 AM
Zone:	Narrows	***Claim #:***	P-2606	***Drilling Ends:***	4/19/2012 8:43:56 AM
Surveyed By:					

Downhole Survey Tests:

Depth	*Azimuth*	*Dip*	*Type*	*Magnetic*
100.00	333.40	-64.00	R	56300
300.00	334.70	-63.80	R	55860
500.00	336.20	-63.40	R	54970
700.00	337.20	-62.60	R	55870
900.00	340.00	-62.50	R	55610
1100.00	340.00	-62.50	R	54960
1300.00	342.30	-62.00	R	55150

Comments:

UTM Coordinates: Zone U17, 0571006 E, 5333393 N, 311 m elev. All core stored at #3 shaft Macassa Mine.

Lithology

From	To	Description
0.00	70.00	
70.00	224.00	SYENITE PORPHYRY: Maroon grey, massive, mg-cg textd porphyry; mod-well developed phenocrysts; minor mafic xenoliths.

Structure

From	To	Description				
98.60	100.00	2-3%	1/4-1/2"	QFS	@ 60	
		Moderate	ser	tr		py
		Grey w/ ser'd margins.				

From	To	Length	Sample #	Au Avg.	Au Assays
98.60	100.00	1.40	378808		

Structure

From	To	Description				
110.00	118.30	2-3%	1/4"	QFS	@ 70	
		Weak	ser	tr		py
		Weak	hem			
		Grey w/ local alt margins.				

From	To	Length	Sample #	Au Avg.	Au Assays
110.00	113.00	3.00	378809		
113.00	116.00	3.00	378810		
116.00	118.30	2.30	378811		
166.00	167.00	1.00	378812		

Structure

From	To	Description				
166.30	166.60		2"	QCrbV	@ 70	bx
		Moderate	hem	2-3%		spec
		Weak	ser	tr		py
		Pinkish grey w/ ser'd margins.				
189.30	195.50	2-3%	1/4"	QFS	@ 60	bx
		Moderate	ser	tr-1%		spec
				tr		py
		Grey w/ ser'd margins.				

From	To	Length	Sample #	Au Avg.	Au Assays
189.30	191.00	1.70	378813		
191.00	194.00	3.00	378814		
194.00	195.50	1.50	378815		

Structure

From	To	Description				
209.60	211.20	2-3%	1/8"	QFS	@ 55	bx
		Moderate	ser	1-2%		spec
				tr		py
		Grey w/ ser'd margins.				

From	To	Length	Sample #	Au Avg.	Au Assays
209.60	211.20	1.60	378816		

Lithology

From	To	Description
224.00	382.10	BI-MODAL PORPHYRY: Dark grey, massive, cg-vcg textd porphyry; mod-well developed mg-cg phenocrysts; vcg, well developed phenos; minor mafic xenoliths. Gradational UC.

From	To	Length	Sample #	Au Avg.	Au Assays
281.50	282.50	1.00	378817		

From	To	Length	Sample #	Au Avg.	Au Assays

Lithology

From	To	Description
382.10	410.20	BASIC SYENITE: Dark grey to dark green, massive, mg-cg textd syenite; euhedral augites; minor felsic ribbing. Sharp UC. Upper contact dipping 50 Deg. To CA

From	To	Length	Sample #	Au Avg.	Au Assays
409.70	410.70	1.00	378818		

Lithology

From	To	Description
410.20	475.20	BI-MODAL PORPHYRY: Dark grey, massive, cg-vcg textd porphyry; mod-well developed mg-cg phenocrysts; vcg, well developed phenos; minor mafic xenoliths. Sharp UC. Upper contact dipping 65 Deg. To CA

From	To	Length	Sample #	Au Avg.	Au Assays
474.70	475.70	1.00	378819		

Lithology

From	To	Description
475.20	529.20	BASIC SYENITE: Dark grey to dark green, massive, mg-cg textd syenite; euhedral augites; minor felsic ribbing. Sharp UC. Upper contact dipping 10 Deg. To CA

From	To	Length	Sample #	Au Avg.	Au Assays
524.00	526.40	2.40	378820		
526.40	527.40	1.00	378821		
		BLANK	*378822*		

Zone

From	To	Description
526.50	529.20	Moderate Alt Moderate ser tr py Weak hem Sample over alt and veining described in structure.

Structure

From	To	Description
526.50	526.80	1" Flt @ 40 bx Moderate ser tr py Moderate hem Bx'd and healed chl flt.
526.80	529.20	3-5% 1/8" QFS bx Moderate ser tr py Weak hem Irregular grey veining w/ altered host rock.

From	To	Length	Sample #	Au Avg.	Au Assays
527.40	529.30	1.90	378823		

Lithology

From	To	Description
529.20	1038.30	SYENITE PORPHYRY: Maroon grey, massive, mg-cg textd porphyry; mod-well developed phenocrysts; minor mafic xenoliths. Sharp UC. Upper contact dipping 70 Deg. To CA

From	To	Length	Sample #	Au Avg.	Au Assays
529.30	531.00	1.70	378824		

Structure From	To	Description				
551.20	552.20	2-3%	1/8"	QCrbS	@ 20	bx
		Weak	hem	1-2%	fg-mg	py
		Grey and pink quartz and cal veining.				

From	To	Length	Sample #	Au Avg.	Au Assays
551.20	552.20	1.00	378825		
629.30	632.00	2.70	378826		

Structure From	To	Description				
629.70	655.20	2-3%	1/8-1/4"	QFS	@ 40-60	bx
		Weak	hem	tr-1%	fg-mg	py
		Weak	ser			
		Representative sampling of grey veining w/ local wk ser'd and or hem alteration.				

From	To	Length	Sample #	Au Avg.	Au Assays
632.00	635.00	3.00	378827		
635.00	638.00	3.00	378828		
638.00	641.00	3.00	378829		
641.00	644.00	3.00	378830		
644.00	647.00	3.00	378831		
647.00	650.00	3.00	378832		
650.00	653.00	3.00	378833		
653.00	655.20	2.20	378834		
709.50	710.50	1.00	378835		

Structure From	To	Description				
710.10	710.20		1/8"	QCrbS	@ 70	bx
		Weak	hem	tr-1%	fg	cpy
		Pinkish grey				

From	To	Length	Sample #	Au Avg.	Au Assays
729.00	730.00	1.00	378836		

Structure From	To	Description				
729.50	729.60		1/4"	QCrbV	@ 58	bx
		Weak	hem	tr		py
		Weak	chl			
		Pinkish grey.				
740.80	764.20	3-5%	1/8-1/4"	QFS	@ 60-80	bx
		Weak	ser	tr-1%	fg-mg	py
		Representative sampling. Grey w/ local ser halos.				

From	To	Length	Sample #	Au Avg.	Au Assays
740.80	743.00	2.20	378837		
743.00	746.00	3.00	378838		
746.00	749.00	3.00	378839		
749.00	752.00	3.00	378840		
752.00	755.00	3.00	378841		
755.00	758.00	3.00	378842		
758.00	761.00	3.00	378843		
761.00	762.50	1.50	378844		
762.50	764.20	1.70	378845		

From	To	Length	Sample #	Au Avg.	Au Assays
807.70	810.00	2.30	378846		
810.00	813.00	3.00	378847		
813.00	816.00	3.00	378848		
816.00	818.00	2.00	378849		
818.00	820.00	2.00	378850		
829.70	830.70	1.00	378851		
890.80	891.80	1.00	378852		
1037.80	1038.80	1.00	378853		
1098.50	1099.50	1.00	378854		
		BLANK	*378855*		

Structure

From	To	Description				
807.70	820.00	2-3%	1/8-1/4"	QFS	@ 35	bx
		Weak	ser	tr		py
		Representative sampling. Grey w/ local ser margins.				

Structure

From	To	Description				
830.10	830.40		1.5"	QV	@ 30	bx
		Moderate	ser	tr		py
		Greenish grey and ser'd vn.				

Zone

From	To	Description
880.00	930.00	
		Strongly Fractured.

Structure

From	To	Description				
890.80	891.80		1/8"	Flt	@ 5	bx
		Moderate	chl	tr		py
		Tight fault gouge.				

Lithology

From	To	Description
1038.30	1099.00	BASIC SYENITE: Dark grey to dark green, massive, mg-cg textd syenite; euhedral augites; minor felsic ribbing. Sharp UC. Upper contact dipping 25 Deg. To CA

Lithology

From	To	Description
1099.00	1133.40	BI-MODAL PORPHYRY: Dark grey, massive, cg-vcg textd porphyry; mod-well developed mg-cg phenocrysts; vcg, well developed phenos; minor mafic xenoliths. Sharp UC. Upper contact dipping 54 Deg. To CA

1133.00	1134.00	1.00	378856		

Lithology

From	To	Description
1133.40	1195.50	BASIC SYENITE: Dark grey to dark green, massive, mg-cg textd syenite; euhedral augites; minor felsic ribbing. Sharp UC.

Upper contact dipping 40 Deg. To CA

Structure

From	*To*	*Description*				
1160.70	1161.00		1/2"	QCrbV	@ 30	Flt bx
				tr		py

Grey vn w/ paralleling tight chl fault gouge in middle of vn.

Structure

From	*To*	*Description*				
1167.00	1180.50	2-3%	1/8"	QCrbV	@ 40-60	bx
		Weak	bl	tr		py
		Weak	hem			

Grey to smokey grey w/ wkly altered host rock.

Lithology

From	*To*	*Description*
1195.50	1250.00	SYENITE PORPHYRY: Maroon grey, massive, mg-cg textd porphyry; mod-well developed phenocrysts; minor mafic xenoliths. Sharp UC., Upper contact dipping 60 Deg. To CA

Structure

From	*To*	*Description*			
1247.00	1250.00	1-2%	1/8"	CrbV	bx
		Strong	hem	tr	py

Irregular whitish grey veining w/ hem'd host rock.

Lithology

From	*To*	*Description*
1250.00	1300.00	BASIC SYENITE: Dark grey to dark green, massive, mg-cg textd syenite; euhedral augites; minor felsic ribbing. Broken UC.

From	*To*	*Length*	*Sample #*	*Au Avg.*	*Au Assays*
1160.40	1161.40	1.00	378857		
1161.40	1164.00	2.60	378858		
1164.00	1167.00	3.00	378859		
1167.00	1170.00	3.00	378860		
1170.00	1173.00	3.00	378861		
1173.00	1176.00	3.00	378862		
1176.00	1179.00	3.00	378863		
1179.00	1180.50	1.50	378864		
1180.50	1183.00	2.50	378865		
1195.00	1196.00	1.00	378866		
1247.00	1249.50	2.50	378867		
1249.50	1250.50	1.00	378868		

EOH : 1300.000
Total # of samples : 61
Total footage sampled : 125.20

PROFESSIONAL GEOSCIENTIST
STEWART J CARMICHAEL
PRACTISING MEMBER
0455
ONTARIO

KIRKLAND LAKE GOLD INC.

Diamond Drill Log Report

Apr 27, 2012

Hole Name: N-12-19

Engineering Coordinates

Easting:	12490.000
Northing:	11877.000
Elevation:	11045.000

Geology Grid

Section:	0+00
Northing:	3+45
Level:	Surface

Date Logged:	4/23/2012
Logged by:	C. Kodors
Units:	Feet

Azimuth:	341.000
Dip:	-58.00
EOH:	1250.000

Drilled By:	Cabo Drilling Corp.
Drill:	Maxi #2
Size:	BQ

Location:	Lakeshore Basin
Zone:	Narrows
Surveyed By:	

Township:	Teck
Claim #:	P-2606

Drilling Starts:	4/5/2012 8:43:56 AM
Drilling Ends:	4/13/2012 8:43:56 AM

Downhole Survey Tests:

Depth	*Azimuth*	*Dip*	*Type*	*Magnetic*
130.00	336.50	-55.10	R	56080
300.00	337.40	-55.20	R	55580
500.00	339.60	-55.10	R	55710
700.00	339.90	-54.60	R	55780
900.00	343.30	-54.00	R	55600
1100.00	342.40	-52.40	R	55720
1250.00	342.90	-51.90	R	55980

Comments:

UTM Coordinates: Zone U17, 0571006 E, 5333393 N, 311 m elev. All core stored at #3 shaft Macassa Mine.

Lithology

From	To	Description	From	To	Length	Sample #	Au Avg.	Au Assays
0.00	75.00							
75.00	204.40	SYENITE PORPHYRY: Maroon grey, massive, mg-cg textd porphyry; mod-well developed phenocrysts; minor mafic xenoliths.						
			114.50	115.50	1.00	378747		

Structure

From	To					
114.90	115.00		1/4"	QV	@ 38	
		Weak	ser	tr		py
		Grey w/ ser'd alt.				

115.50	138.00	22.50	378748		

Structure

From	To					
138.40	138.60		1/2"	QV	@ 48	
		Weak	ser	tr		py
		Smokey grey w/ pink cal and ser on margins				
176.60	178.90	2-3%	1/8"	QFS	@ 60	
		Weak	ser	tr		py
		Grey to dark grey.				

176.60	178.90	2.30	378749		

Structure

From	To					
186.00	192.00	2-3%	1/8"	QCrbS		bx
		Moderate	ser	tr		py
		Representative sampling. Grey veining w/ ser'd host rock. Local unaltered sections.				

186.00	189.00	3.00	378750		
189.00	192.00	3.00	378751		

Structure

From	To					
201.50	204.40	3-5%	1/8"	CrbV	@ 60	bx
		Moderate	hem	tr		py
		Weak	chl			
		Representative sampling. Grey veining w/ chl margins and hem'd host rock.				

201.50	204.40	2.90	378752		

Lithology

From	To	Description
204.40	393.70	BI-MODAL PORPHYRY: Dark grey, massive, cg-vcg textd porphyry; mod-well developed mg-cg phenocrysts; vcg, well developed phenos; minor mafic xenoliths. Gradational UC.

Structure

From	To					
221.70	228.40	2-3%	1/8"	QCrbS	@ 40	bx
		Weak	ser	tr		py
		Weak	hem			
		Grey w/ wkly altered host rock.				

221.70	224.00	2.30	378753		

Structure

From	To	Description				
246.00	249.00	2-3%	1/8"	QCrbV	@ 50	bx
		Weak	hem	tr		py
		Weak	chl			
		Grey w/ chl margins and hem'd host rock.				

Structure

From	To	Description				
264.30	264.40		1/8"	Flt	@ 50	
		Moderate	chl	tr		py
		Tight flt gouge.				
264.50	264.60		1/4"	QV	@ 75	
		Weak	hem	tr		py
		Grey to dark grey.				

Structure

From	To	Description				
266.50	266.60		1/8"	Flt	@ 65	
		Moderate	chl	tr		py
		Tight flt gouge.				

Structure

From	To	Description				
328.30	328.60	2-3%	1/8"	CrbV		bx
		Weak	ser	tr-1%	fg-mg	py
		Weak	hem			
		Whitish grey w/ wkly altered host rock.				
347.50	349.50	2-3%	1/8"	QFS	@ 60	bx
		Weak	ser	tr		py
		Grey w/ altered host rock.				

Structure

From	To	Description				
370.70	376.00	2-3%	1/4"	QCrbV	@ 60	Brk
		Moderate	hem	tr-1%	mg	py
		Grey to whitish grey w/ mod hem'd host rock.				

Lithology

From	To	Description

From	To	Length	Sample #	Au Avg.	Au Assays
224.00	227.00	3.00	378754		
227.00	228.40	1.40	378755		
246.00	249.00	3.00	378756		
264.00	265.00	1.00	378757		
265.00	266.00	1.00	378758		
266.00	267.00	1.00	378759		
328.00	329.00	1.00	378760		
347.50	349.50	2.00	378761		
370.70	373.00	2.30	378762		
373.00	376.00	3.00	378763		
393.20	394.20	1.00	378764		

From	To	Description	From	To	Length	Sample #	Au Avg.	Au Assays
393.70	475.30	BASIC SYENITE: Dark grey to dark green, massive, mg-cg textd syenite; euhedral augites; minor felsic ribbing. Irregular UC.						

Structure

From	To	Description				
441.80	442.80	7-10%	1/4"	QCrbS	@ 50	bx
		Weak	hem	tr		py
		Purplish grey veining; spec?				

From	To	Length	Sample #
441.80	442.80	1.00	378765
447.20	448.20	1.00	378766

Structure

From	To	Description				
447.50	447.80	1-2%	1/4-1/2"	QCrbV	@ 60	bx
		Weak	hem	tr		py
		Pinkish grey.				

From	To	Length	Sample #
474.70	475.70	1.00	378767

Lithology

From	To	Description
475.30	803.20	SYENITE PORPHYRY: Maroon grey, massive, mg-cg textd porphyry; mod-well developed phenocrysts; minor mafic xenoliths. Irregular UC.

Structure

From	To	Description				
490.00	497.00	3-5%	1/8"	QCrbV	@ 60	bx
		Moderate	hem	tr		py
		Weak	ser			
		Grey w/ ser'd margins and hem'd host rock.				

From	To	Length	Sample #
490.00	493.00	3.00	378768
493.00	495.00	2.00	378769
495.00	497.00	2.00	378770
533.00	534.00	1.00	378771

Structure

From	To	Description				
533.30	533.70	2-3%	1/4"	QCrbV	@ 35	bx
		Weak	hem	tr		py
		Weak	ser			
		Grey to dark grey.				

From	To	Length	Sample #
590.00	591.00	1.00	378772

Structure

From	To	Description				
590.50	590.70		1"	QCrbS	@ 65	bx
		Weak	ser	tr		py
		Weak	hem			
		Whitish grey w/ wk ser and hem alt.				

From	To	Length	Sample #
617.20	618.20	1.00	378773
		BLANK	*378774*

From	To	Length	Sample #	Au Avg.	Au Assays

Structure

From	To	Description					
617.60	617.90		2"	QV	@ 50	bx	
		Weak	ser	tr		py	
		Smokey dark grey w/ ser'd margins.					
645.00	650.00	3-5%	1/8"	CrbV		bx	
		Moderate	ser	tr		py	
		Weak	chl				
		Irregular and grey w/ chl margins and ser'd host rock.					

From	To	Length	Sample #	Au Avg.	Au Assays
645.00	648.00	3.00	378775		
648.00	650.00	2.00	378776		
721.00	723.50	2.50	378777		
723.50	724.50	1.00	378778		

Structure

From	To	Description					
723.60	724.40		1.5"	QV	@ 35	Flt	bx
		Weak	ser	tr		py	
		Pink QV w/ paralleling ser/chl flt on leading margin.					

From	To	Length	Sample #	Au Avg.	Au Assays
724.50	727.00	2.50	378779		

Structure

From	To	Description				
773.00	778.00	2-3%	1/8"	QCrbV	@ 50	bx
		Moderate	ser	tr		py
		Weak	chl			
		Grey w/ chl margins and ser'd host rock.				

From	To	Length	Sample #	Au Avg.	Au Assays
773.00	776.00	3.00	378780		
776.00	778.00	2.00	378781		
802.70	803.70	1.00	378782		

Lithology

From	To	Description
803.20	813.50	CONGLOMERATE: Dark green, massive, polymictic conglomerate; pebble to cobble sized clasts; greywacke matrix. Sharp UC., Upper contact dipping 50 Deg. To CA

From	To	Length	Sample #	Au Avg.	Au Assays
810.00	812.00	2.00	378783		
812.00	813.00	1.00	378784		

Structure

From	To	Description					
812.50	813.50	2-3%	1/4"	QFS	@ 70	QCrbV	Brk
		Moderate	ser	tr		py	
		Grey veining w/ ser'd margins.					

From	To	Length	Sample #	Au Avg.	Au Assays
813.00	814.00	1.00	378785		

Lithology

From	To	Description
813.50	849.00	BASIC SYENITE: Dark grey to dark green, massive, mg-cg textd syenite; euhedral augites; minor felsic ribbing. Strongly Bl/ser'd Sharp UC.

From	To	Length	Sample #	Au Avg.	Au Assays
814.00	815.00	1.00	378786		
815.00	817.00	2.00	378787		
848.50	849.50	1.00	378788		

Upper contact dipping 60 Deg. To CA

Lithology

From	To	Description
849.00	949.50	SYENITE PORPHYRY: Maroon grey, massive, mg-cg textd porphyry; mod-well developed phenocrysts; minor mafic xenoliths. Sharp UC. Upper contact dipping 75 Deg. To CA

Structure

From	To	Description				
883.30	885.30	3-5%	1/8"	CrbV		bx
		Moderate	hem	1-2%	fg-mg	py
		Weak	ser			
		Grey w/ ser'd margins and hem'd host rock.				

From	To	Length	Sample #	Au Avg.	Au Assays
883.30	885.30	2.00	378789		
949.00	950.00	1.00	378790		

Lithology

From	To	Description
949.50	961.70	BASIC SYENITE: Dark grey to dark green, massive, mg-cg textd syenite; euhedral augites; minor felsic ribbing. Sharp UC. Upper contact dipping 48 Deg. To CA
961.70	984.70	SYENITE PORPHYRY: Maroon grey, massive, mg-cg textd porphyry; mod-well developed phenocrysts; minor mafic xenoliths. Sharp UC. Upper contact dipping 60 Deg. To CA

Structure

From	To	Description					
961.70	984.70	3-5%	1/8"	QFS	@ 40-60	QCrbS	bx
		Moderate	hem	1-2%	fg-mg	py	
		Representative sample of grey veining w/ hem'd margins.					

From	To	Length	Sample #	Au Avg.	Au Assays
961.70	962.70	1.00	378791		
962.70	965.00	2.30	378792		
965.00	968.00	3.00	378793		
968.00	971.00	3.00	378794		
		BLANK	*378795*		
971.00	974.00	3.00	378796		
974.00	977.00	3.00	378797		
977.00	980.00	3.00	378798		
980.00	983.00	3.00	378799		
983.00	984.20	1.20	378800		
984.20	985.20	1.00	378801		

Lithology

From	To	Description
984.70	1173.60	BASIC SYENITE: Dark grey to dark green, massive, mg-cg textd syenite; euhedral augites; minor felsic

From	To	Length	Sample #	Au Avg.	Au Assays
1173.00	1174.00	1.00	378802		
1174.00	1175.20	1.20	378803		
1175.20	1176.50	1.30	378804		
1176.50	1177.50	1.00	378805		
1191.50	1192.50	1.00	378806		
1197.10	1198.10	1.00	378807		

ribbing.
Irregular UC.

1093.80 *1094.50* *Sharp and chilled UC @ 35 DTCA.*

Lithology

From	To	Description
1173.60	1175.70	SYENITE PORPHYRY: Maroon grey, massive, mg-cg textd porphyry; mod-well developed phenocrysts; minor mafic xenoliths. Sharp UC. Upper contact dipping 70 Deg. To CA

Lithology

From	To	Description
1175.70	1250.00	BASIC SYENITE: Dark grey to dark green, massive, mg-cg textd syenite; euhedral augites; minor felsic ribbing. Irregular and broken UC,

Structure

From	To	Description				
1177.00	1177.10		1/2"	Flt	@ 45	bx
		Strong	chl	tr		py
		Tight muddy fault gouge.				

Structure

From	To	Description				
1191.70	1192.40		1/8"	Flt	@ 10	bx
		Strong	chl	tr		py
		Tight muddy fault gouge.				

Structure

From	To	Description				
1197.30	1197.90	5-7%	1/8"	QCrbS	@ 70	bx
		Weak	hem	tr		py
		Smokey grey.				

EOH : 1250.000
Total # of samples : 61
Total footage sampled : 127.70

PROFESSIONAL GEOSCIENTIST
STEWART J. CARMICHAEL
PRACTISING MEMBER
0455
ONTARIO

-1300S -1200S -1100S -1000S -900S -800S -700S -600S -500S -400S -300S

11000EL 10900EL 10800EL 10700EL 10600EL 10500EL 10400EL 10300EL 10200EL 10100EL 10000EL 9900EL 9800EL 9700EL 9600EL

CAS shr@35 shr@50 Crushed @50 Flt@50 Flt@45 ARROWS BRK @60 shrBx@30 chl/sp@28 Flt/Bx EOH 5011.0 5060.0 N-02-22

Ct@35 Ct@30 Fol@60 Flt@30 X-Flt@7 Ct@60 OV@50 EOH 1205.0 N-04-36 1250.0 N-12-19

QVFlt@35 54Flt@40 Fln@25 Ct@35 Fln@25 Ct@65 Ct@30 Ct@30 Qv@28-N.Brk? 1300.0 N-12-20 1511.6 N-04-37

QVB 1267.0 Flt@30 4011.0 1268.0 Flt@30 2100.0 2215.0 0.06 0.02 MINERALIZED 2512.0 174.1 1268 EOH 253.0 198.0 2355 EOH 576.0 49 EOH 1067.0 27 EOH 307.0 55 BRK 530.0 48 EOH 368.6 2543

SLIP@40?;QV;PY;VG SLL & SEVERAL SPECKS V.G.

PROFESSIONAL GEOSCIENTIST ONTARIO STEWART J. CARMICHAEL PRACTISING MEMBER 0455

Kirkland Lake Gold

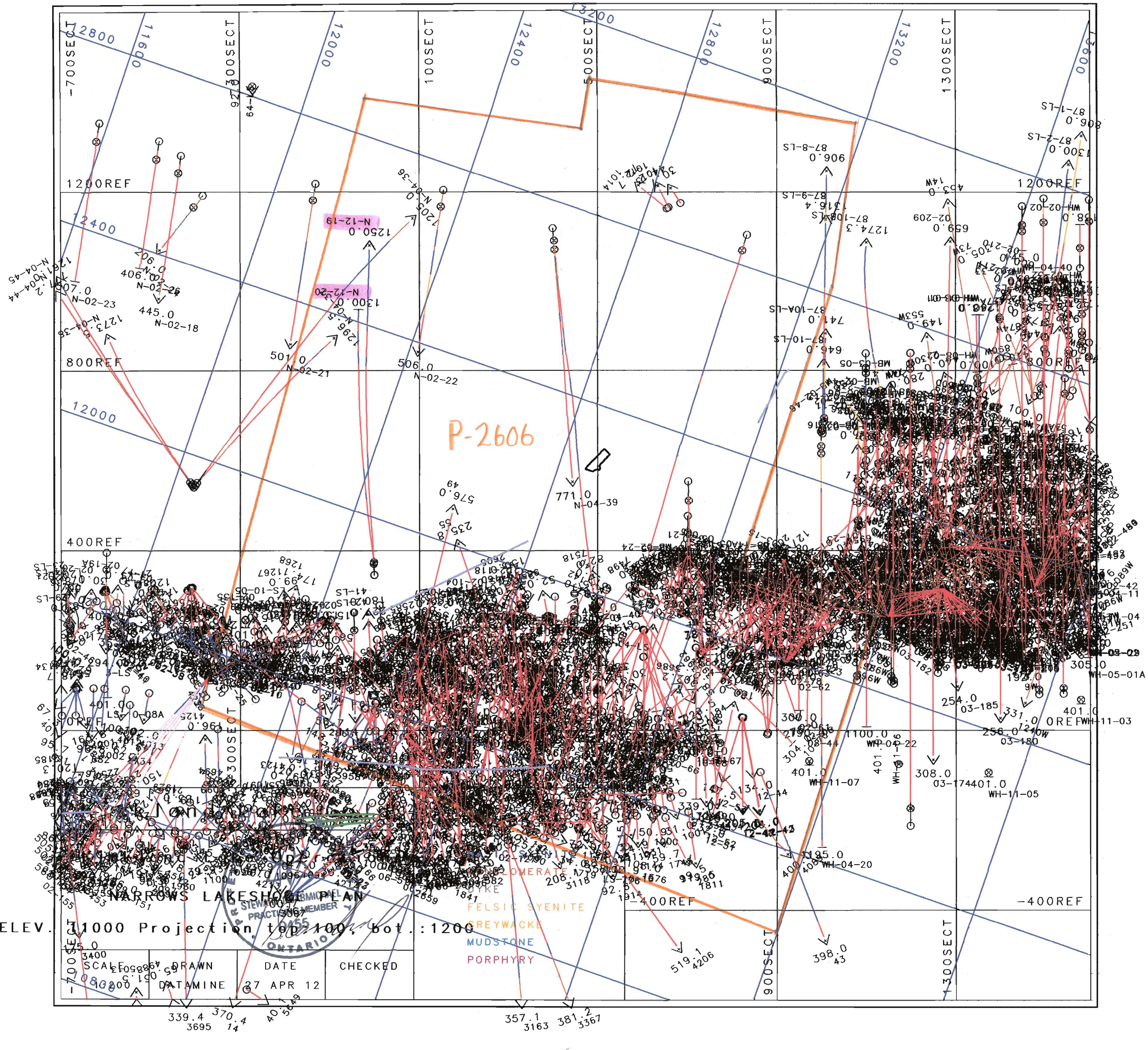
KIRKLAND LAKE OPERATION

TECK TOWNSHIP, LARDER LAKE MINING DIVISION
CLAIM # P-2606
SECTION 0+00E, LOOKING EAST AT 071°
SECT. 0+0W Far:200 Near:200

SCALE	DRAWN	DATE	CHECKED
1:100	DATAMINE	27 APR 12	

LEGEND

- BASIC SYENITE
- CONGLOMERATE
- DYKE
- FELSIC SYENITE
- GREYWACKE
- MUDSTONE
- PORPHYRY


P-2606
NARROWS LAKESHORE PLAN
ELEV. 11000 Projection, top:1100, bot.:1200
SCALE 1:400
DRAWN DATAMINE
DATE 27 APR 12
CHECKED
1200REF
800REF
400REF
-400REF
-700SECT
-300SECT
100SECT
500SECT
900SECT
1300SECT
12800
11600
12000
12400
13200
13600
N-12-19
N-12-20
N-12-21
N-12-22
N-12-23
N-12-18
N-04-39
N-04-36
N-04-38
N-04-45
87-8-LS
87-9-LS
87-10-LS
87-10A-LS
87-1-LS
87-2-LS
WH-11-07
WH-11-05
WH-11-03
WH-04-20
WH-05-01A
03-185
03-180
03-174
02-209
02-62
MB-03-05
MB-02-24
FELSIC SYENITE
GREYWACKE
MUDSTONE
PORPHYRY
CONGLOMERATE

ONTARIO CANADA

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

PROVINCIAL MINING RECORDER'S OFFICE

Mining Land Tenure Map

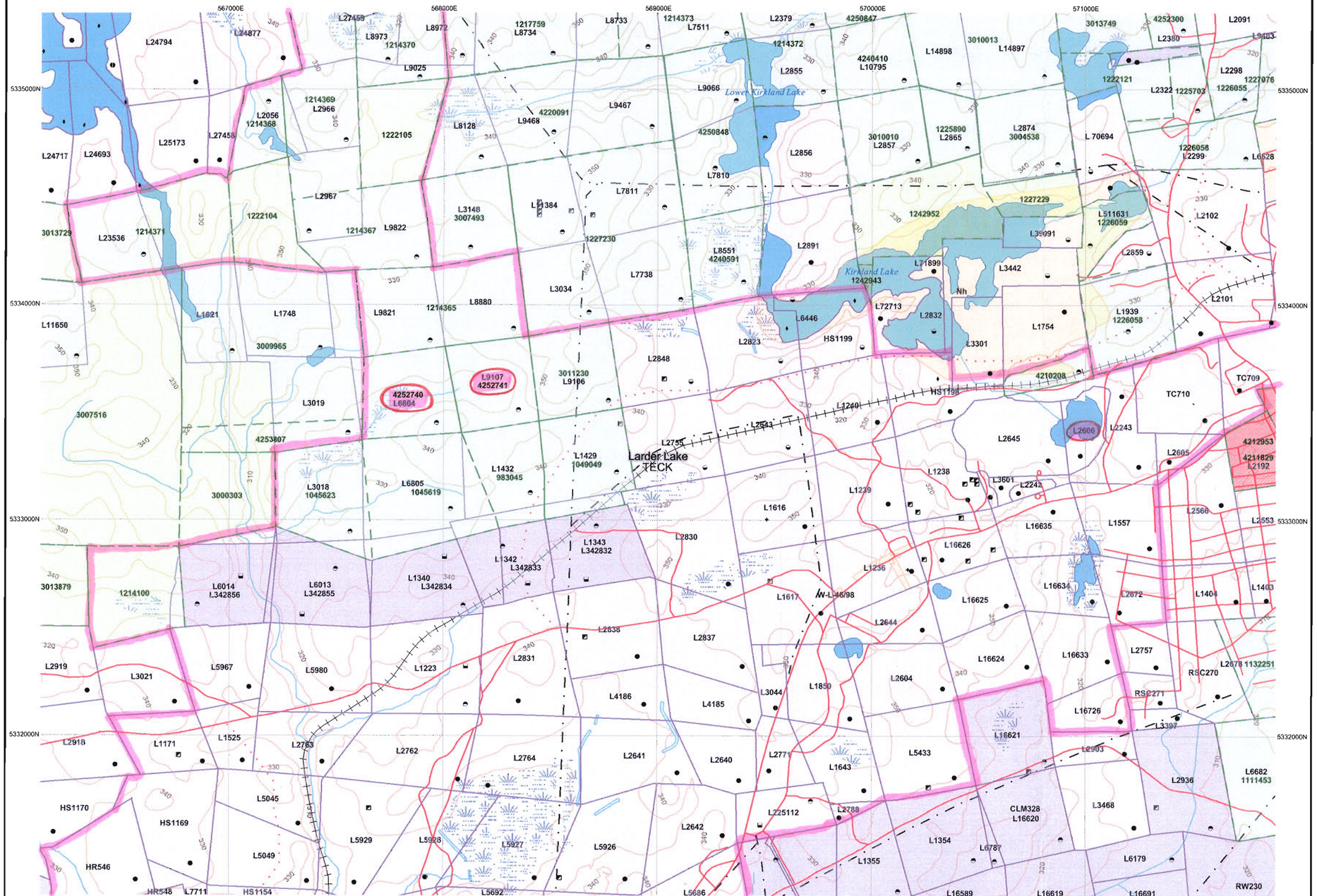
Date / Time of Issue: Thu Apr 26 12:43:06 EDT 2012

TOWNSHIP / AREA
TECK

PLAN
G-3719

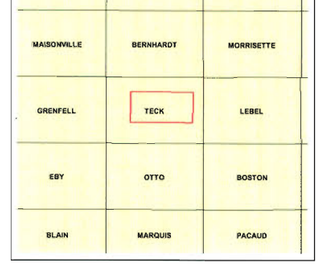
ADMINISTRATIVE DISTRICTS / DIVISIONS

Mining Division	Larder Lake
Land Titles/Registry Division	TIMISKAMING
Ministry of Natural Resources District	KIRKLAND LAKE



TOPOGRAPHIC

- Administrative Boundaries
- Township
- Concession, Lot
- Provincial Park
- Indian Reserve
- Cliff, Pit & Pile
- Contour
- Mine Shafts
- Mine Headframe
- Railway
- Road
- Trail
- Natural Gas Pipoline
- Utilities
- Tower



Land Tenure

Freehold Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Leasehold Patent
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only

Licence of Occupation
- Uses Not Specified
- Surface And Mining Rights
- Surface Rights Only
- Mining Rights Only
- Land Use Permit
- Order In Council (Not open for staking)
- Water Power Lease Agreement
- 1234567 Mining Claim
- 1234567 Filed Only Mining Claims

LAND TENURE WITHDRAWALS

1234 Areas Withdrawn from Disposition

Mining Acts Withdrawal Types
- Wsm Surface And Mining Rights Withdrawn
- Ws Surface Rights Only Withdrawn
- Wm Mining Rights Only Withdrawn

Order In Council Withdrawal Types
- W°sm Surface And Mining Rights Withdrawn
- W°s Surface Rights Only Withdrawn
- W°m Mining Rights Only Withdrawn

Ns IMPORTANT NOTICES

Scale 1:20000

300m 0m 900m

LAND TENURE WITHDRAWAL DESCRIPTIONS (list may not be complete)

Identifier	Type	Date	Description
3855	Wsm	Jan 1, 2001	MNR RES. FILE 101409
W-L-16/05	Wsm	Mar 31, 2005	W-L-16/05 M&S withdrawal S.35 Mining Act RSO 1999, March 31th, 2005 Click to link to withdrawal order.
W-L-46/98	Ws	Oct 27, 1998	W-L-46/98 M&S withdrawal S.35 Mining Act RSO 1999, October 27, 1998 Click to link to withdrawal order.

IMPORTANT NOTICES

Areas under which special regulation, limitations or conditions exist that affect normal prospecting, staking and mineral development activities.

Type	Description
nh	DISTURBANCE OF THESE REHABILITATED MINING LANDS REQUIRES WRITTEN CONSENT OF THE DIRECTOR, MINE REHABILITATION, SECTION 167(4) OF THE MINING ACT.

Those wishing to stake mining claims should consult with the Provincial Mining Recorders' Office of the Ministry of Northern Development and Mines for additional information on the status of the lands shown hereon. This map is not intended for navigational, survey, or land title determination purposes as the information shown on this map is compiled from various sources. Completeness and accuracy are not guaranteed. Additional information may also be obtained through the local Land Titles or Registry Office, or the Ministry of Natural Resources.

The information shown is derived from digital data available in the Provincial Mining Recorders' Office at the time of downloading from the Ministry of Northern Development and Mines web site.

General Information and Limitations

Contact information:
Provincial Mining Recorders' Office
Willet Green Miller Centre 933 Ramsey Lake Road
Sudbury ON P3E 6B5
Home Page: www.mndm.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Toll Free
Tel: 1 (888) 415-9845 ext 5742
Fax: 1 (877) 670-1444

Map Datum: NAD 83
Projection: UTM (6 degree)
Topographic Data Source: Land Information Ontario
Mining Land Tenure Source: Provincial Mining Recorders' Office

This map may not show unregistered land tenure and interests in land including certain patents, leases, easements, right of ways, flooding rights, licences, or other forms of disposition of rights and interest from the Crown. Also certain land tenure and land uses that restrict or prohibit free entry to stake mining claims may not be illustrated.