2.35710

GRACIE WEST 2007 TECHNICAL REPORT

DIAMOND DRILLING PROGRAM

Teck Township - Ontario

District of Timiskaming

RECEIVED
AUG 1 / 2007
GEOSCIENCE ASSESSMENT OFFICE

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Kirkland Lake, Ontario

August 20, 2007

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INTRODUCTION

The following report details a three hole diamond drilling program (2,928') completed in December, 2005 on the Gracie West property as part of a joint venture exploration program between Kirkland Lake Gold Inc. and Queenston Mining Inc.

The Gracie West property, of 280 hectares, is located at 7 km southwest of the town of Kirkland Lake, Ont., in the southwestern part of Teck Township. The Kirkland Lake Main Break is interpreted to extend through the north portion of the property and thus represents a significant exploration target.

Two diamond drill holes were completed over the north section of the property to target the Main Break as well as a surface gold showing, located during the course of prospecting, which assayed 1320 ppb (0.038 opt). A third hole to the south targeted a mapped shear zone trending parallel to the Main Break.

The second drill hole, GW-0502 intersected the inferred location of the Kirkland Lake Main Break and returned slightly anomalous gold mineralization (243 and 261 ppb Au) associated with a strong foliated break zone composed of lithified cataclasite with fault gouge injected with quartz-carbonate veins with sulphides.

None of the drill holes intersected significant mineralization and all assays returned values less than 0.01 opt. Further exploration work is recommended to include MMI geochemical sampling followed by a stripping program over any located geochemical anomalies. The estimated cost to complete this program is $40,000.00.

LOCATION, ACCESS AND FACILITIES

The Gracie West property, of 280 hectares, is located at 7 km southwest of the town of Kirkland Lake, Ont., in the southwestern part of Teck Township. The property is accessible from the highway 66 through the village of Swastika, going north on a local gravel road that cross the power line trail, the gas line trail and further north, branching with an east-to-west trend timber road crossing the property. The area is well developed with permanent electrical, hydraulic and transportation networks supporting major mining activities, namely Kirkland Lake Gold Inc (Fig.1).

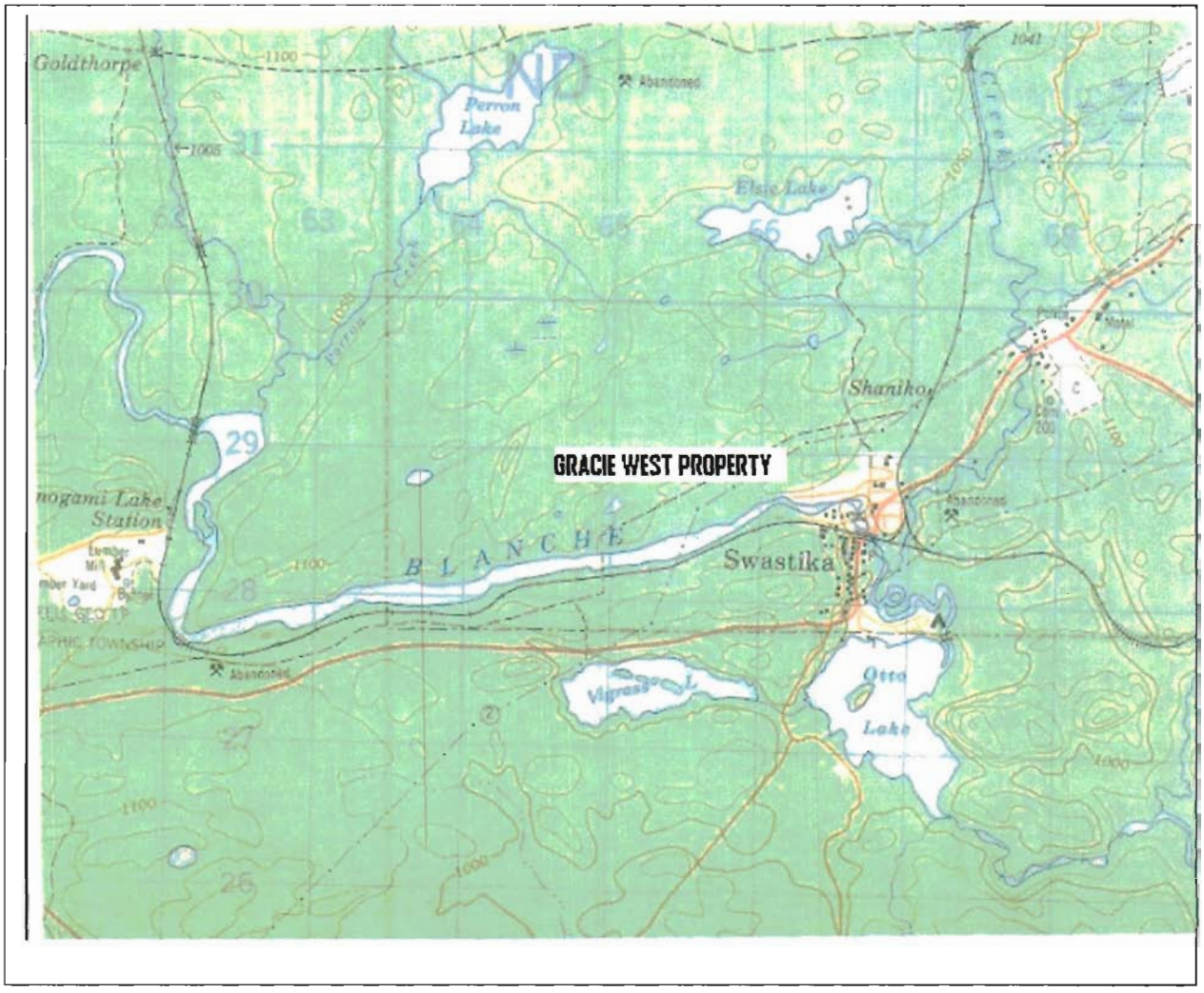


Figure 1 – General Location Plan

LAND TENURE AND OWNERSHIP

The Gracie West property comprises two contiguous packages of patented, staked and leased claims in the southwestern part of Teck Township, immediately west of the Kirkland Gateway property and north of Blanche River (Fig. 2). The pooling of the two groups includes the Gracie West and Blanche River groups as follows:

Claim#	Type	Due Date	Registered Title
16680	Patent	None	Kirkland Lake Gold
4230	Patent	None	Kirkland Lake Gold
4869	Patent	None	Kirkland Lake Gold
6842	Patent	None	Kirkland Lake Gold
6843	Patent	None	Kirkland Lake Gold
6863	Patent	None	Kirkland Lake Gold
9809	Patent	None	Kirkland Lake Gold
9810	Patent	None	Kirkland Lake Gold
9811	Patent	None	Kirkland Lake Gold

Claim#	Type	Due Date	Registered Title
9812	Patent	None	Kirkland Lake Gold
9813	Patent	None	Kirkland Lake Gold
9814	Patent	None	Kirkland Lake Gold
16614	Patent	None	Kirkland Lake Gold
Blanche River Claims			
476845	Lease #105469	June 1/2011	Queenston Mining
476846	Lease #105470	June 23/2010	Queenston Mining
476847	""		Queenston Mining
892088	Staked	June 19/2010	Queenston Mining
927914	Staked	June 23/2010	Queenston Mining
927921	Staked	June 23/2010	Queenston Mining
927927	Staked	June 23/2010	Queenston Mining
892085	Staked	June 19/2010	Queenston Mining

REGIONAL GEOLOGY

The area is part of the southern Abitibi greenstone belt of the Superior Province where supracrustal rocks include submarine komatiitic, tholeitic, and calc-alkaline volcanic sequences of the Blake River (2710-2697 Ma), Kinojevis (2702 – 2701 Ma) and Tisdale (2710-2703 Ma) rocks. These rocks form a broad east-west-trending synclinorium, the north and south limbs of which are transected by the Destor-Porcupine (north) and Larder Lake (south) regional deformation zones. Belts of clastic sedimentary and alkalic to shoshonite rocks of the Timiskaming assemblage (2687-2675 Ma) unconformably overlie older sequences along the deformation zone. Felsic and alkalic plutons and dikes (2695-2673 Ma) intrude the stratified units. These rocks are metamorphosed to prehnite-pumpellyite to greenschist grade. Upper greenschist and amphibolite facies rocks are found in contact around aureoles of granitoids plutons (Ispolatov et al., 2005).

The Kirkland Lake-Larder Lake gold belt broadly corresponds to the east-west-trending, 3-5 km wide belt of Timiskaming rocks bounded in the south by the Larder Lake-Cadillac deformation zone. The belt hosts the Kirkland Lake and Kerr Addison-Chesterville world-class gold deposits and several smaller gold deposits and occurrences. Gold mineralization is spatially associated with the Larder Lake-Cadillac deformation zone, and with smaller proximal faults and shear zones. The largest gold deposit of the area, Kirkland Lake, is associated with the brittle to brittle-ductile Kirkland Lake Fault, known as the "Main Break", roughly 2 km north of the Larder Lake-Cadillac deformation zone (Ispolatov and al., 2005). The Larder Lake-Cadillac deformation zone corresponds to the southern margin of the Timiskaming assemblage. About 2 km to the north syenite rocks are cut by the Kirkland Lake fault with a strike of roughly N065° and dipping steeply to the south. Gold mineralization of the Kirkland Lake deposits generally occurs along this fault and its immediate splays. Ore-controlling faults and auriferous quartz veins are northeast striking structures, offsetted by major post-ore faults, including the Amikougami Creek, Tegren, Lake Shore and Sylvanite faults, trending North-South. No economic surface mineralization has been found to date west to the Amikougami Creek fault, which constitute the western limit of presently known economic gold mineralization of the Kirkland Lake gold camp.

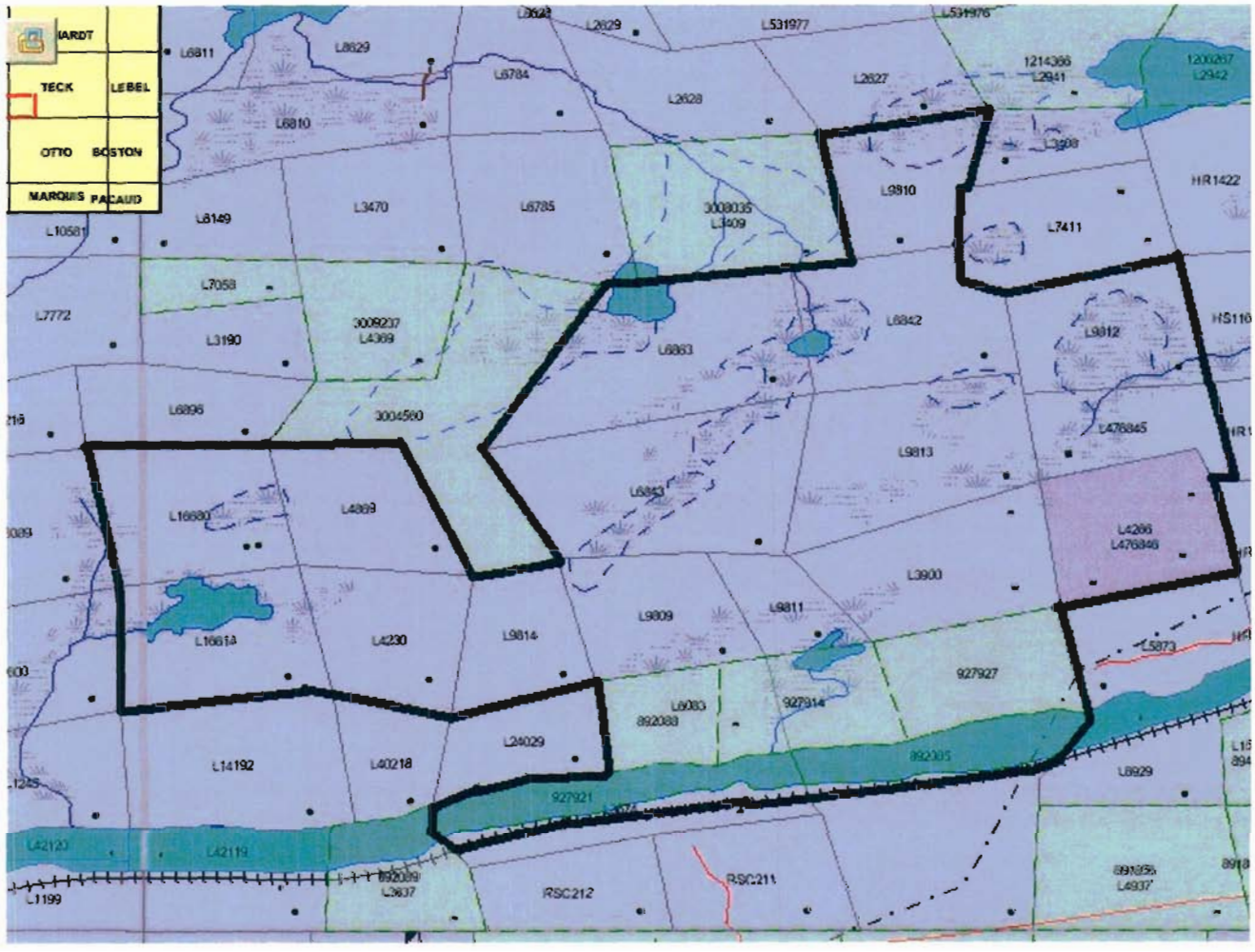


Figure 2 – Claim Location Plan

Other significant faults include the northeast-trending Amalgamated Kirkland-Blanche River (bordering the south portion of the Gracie West property) and Murdock Creek faults (Ispolatov and al., 2005). The Amalgamated Kirkland-Blanche River Fault is a continuous structure, which can be traced westward from the Lake Shore Cross-fault to the west boundary of the Teck Township. For the most part, this fault is centered upon the Southern Intrusive Suite and follows the Blanche River beds west of the Amikougami Creek Fault. Thompson (1950) describe the Amalgamated Kirkland-Blanche River Fault as a steep south dipping thrust fault of unknown displacement, but with post-diabase movement of up to 200 ft (61 m) with the south side moving east. It is indicated by a strong shearing, carbonatization, silicification, mineralization, and low gold values (Thompson, 1950).

The igneous rocks of the Kirkland Lake composite stock and smaller bodies intrude the Timiskaming assemblage in the general proximity of the Kirkland Lake Fault (Main/`04 Break) and in the area north of it. These alkalic igneous rocks are subdivised into three phases (from the earliest to the latest phase); mafic augite syenite (known as "Basic Syenite"), syenite and syenite porphyry. Mafic syenite forms the western part of the composite stock transected by the Main Break, and a large up to 350 m wide body

500-800 m north of the Main Break. Syenite constitutes a relatively minor type, which forms an irregular pipe-like body exposed along the Main Break on the Teck-Hughes and Lake Shore properties. Syenite porphyries form a 1 km long by 0.5 km wide body that underlies the northern part of the Town of Kirkland Lake and hosts gold mineralization along the former Lake Shore, Wright-Hargreaves, Sylvanite, and Toburn mines. Additionally, syenite porphyries also occur as numerous smaller dikes, sills and stocks throughout the township, and on the property. Other intrusive rocks are later coarse biotite lamprophyres, Matachewan dikes and intramineral dikes.

PROPERTY GEOLOGY

The Gracie West property is located in the southwestern part of the Teck Township where the general trend setting of the Timiskaming assemblage faces south and dips steeply to moderately (50-70°) to the south. Alluvial-fluvial sandstones and conglomerates are volumetrically predominant in the Timiskaming assemblage (<2683 ± Ma). Volcanic rocks include three major alkalic pyroclastic units named (from north to south); Grenfell, Goodfish, and Blanche River formations. The latest unit (Blanche River Formation) composes the calc-alkalic metavolcanic rocks of the Gracie-West property, mostly pyroclastics interbedded with the conglomerate-greywacke units of the Teck Formation emplaced in the southern part of the property. The middle unit (Goodfish Formation) is coeval with the Upper Chaput-Hughes Conglomerate Formation, the later being emplaced in the north sector of the property, with a discordance setting disrupted at surface by the Kirkland Lake fault.

Mafic syenite is composed of pyroxene (20-60 % augite), K-feldspar, locally biotite, and minor plagioclase. Most augite syenites are near equigranular with 2-5 mm grain size. Small dikes of porphyric varieties with augite phenocryst and fine-grained feldspar-rich groundmass were observed across the property. A distinct characteristic of augite syenite is the presence of 1 cm to 20 cm thick leucocratic band-like inclusions informally called "felsic ribs", which mark the originally anisotropic nature of the mafic syenite and existence of primary magmatic planar fabrics in the intrusion. Augite syenite can be derived to a more lamprophyre composition characterized by large calcite phenocrysts and numerous chloritic clots. Felsic syenite is seldom encountered and contains approximately 15 % pyroxene and probably represents a rock type transitional to mafic syenite. Ispolatov (2005) classify syenite porphyries in two textural varieties: "feldspar-rich" and "sparsely porphyritic", where these two varieties are macroscopically distinct and can be mapped as separate rock types. "Feldspar-rich" syenite porphyry is a massive rock that contains 30-50 % fine (1-2 mm, 3-4 mm) short prismatic to subequant plagioclase phenocrysts along with 5-10 % biotite, and less commonly amphibole. Also characteristic is the presence of green angular aphanitic xenoliths, presumably of calc-alkalic metavolcanic rocks. "Sparsely porphyritic" syenite porphyry differs from feldspar-rich variety by a low content of feldspar phenocryst (5-15 % to 20 %), their larger size (1-5 mm), and by significantly higher percentage of mafic minerals (20-35 %), represented mainly by amphibole (1-3 mm locally) and subordinate biotite. In addition to green aphanitic xenoliths,

sparsely porphyritic syenite porphyries also contain rounded pebble-to-cobble-like granitoids xenoliths that are 5 to 20 cm in diameter. A distinct porphyritic rock type occurs north of highway 66, immediately west of Amikougami Creek. It contains prismatic phenocrysts of feldspar and pyroxene set in an aphanitic groundmass. Geochemically very similar to augite syenites, these rocks may represent their hypabyssal equivalent. The earlier augite syenite and syenite intrusions are cross cut by dikes of syenite porphyries. Other intrusive rocks are later coarse biotite lamprophyres, Matachewan dikes and intramineral dikes.
The highest gold value found during the course of prospecting (1320 ppb; GW-032A) is related to a strong anastomosed shear zone, striking N240°, in a clast-supported conglomerate of the Upper Chaput-Hughes Formation, located 100 meters north of the inferred Main Break.

TYPES OF MINERALIZATION

In the Kirkland Lake Gold Camp the deposits generally consist of several mineralized zones that can be mined as individual ore shoots or stopes. The boundaries of the shoots are often defined by economic considerations. Gold deposits occur along high-strain zones having specific strike orientation, northeast-to-east-northeast and also newly discovered north-south trending mineralization systems in the case of Macassa deposit in the Kirkland Lake Camp. To date, nine mineralized structures, including at least five North-South structures, have been discovered south of the active mine workings at Macassa. They may extend 5,000 feet or more. Historically, ore-bearing structures in Kirkland Lake are laterally extensive (1,000 to 8,000 feet). An example of the extent of potential mineralization is the Teck-Hughes Mine where 3,700,000 ounces of gold were mined from the Main Break over a strike length of only 1,400 feet, and located on a single mineral claim.
Deposits are characteristically tabular, generally relatively narrow, and have much greater strike length and down-dip dimension with respect to thickness. Individual gold deposits and ore shoots within high strain zones generally have strikes that are similar to those of the nearby subsidiary and regional structures. However, in some deposits, difference exists between the strike of the host shear zone or local fold axial plane, and the strike of the deposit or ore shoots within the deposits. Strike differences are generally in the range of 10° to 30°.
More recently a new type of mineralization has been discovered by Kirkland Lake Gold Inc. south of the Main/`04 Break system at the Macassa Mine. Gold mineralization there is closely associated with structurally controlled pyritic mineralization trending both sub-parallel and oblique to the Main Break trend.

PREVIOUS EXPLORATION HISTORY

Several small contiguous claim groups staked in the early days of the camp were patented in the 1920's. These claims became the Murphy property and were eventually optioned by M. J. O'Brien Ltd, in 1937. A program of diamond drilling was carried out under the supervision of W.S. Dyer, geologist for the

company (Fig. 3). Twelve drill holes, aggregating 4,559 feet, were put down along the probable west extension of the Main Kirkland Lake Fault. No ore was found and the option was dropped. The claims are underlain by Timiskaming sediments and tuffs intruded by basic syenite, syenite porphyry, lamprophyre and diabase dikes. The drilling corroborated the geological and topographical evidence that the main Kirkland Lake Break trends north of east along the sediments-tuffs contact on claim L. 6863 and L.6842. Two holes sectioning the structure near the southeast corner of claim L. 6863 indicated that the fault has a dip of about 62 SE, to the west, though it appears to steepen. A fault gouge, ranging from 0.5 inch to 4 inches in width, was intersected in some of the holes. The rocks adjacent to the fault are carbonatized and silicified, and contains quartz and calcite stringers but scarcely any mineralization. The deepest hole cut the fault at a vertical depth of 580 feet. Only traces of gold were reported from the drilling operations (O.D.M., 1948, Resident Geologist's files, Kirkland Lake, Ont.).

In 1997, Kinross Gold Corporation core-drilled a 1483 feet hole (KM 97-002) collared on the actual grid line L132W at 7+50N, with a strike of 320° and dipping north at 66° (claim L.6842). The hole intersected a 5" laminated mud fault in the basic syenite-tuff contact at 355 feet downhole, and a one feet quartz-carbonate break zone in greywackes at 650 feet downhole, without encountering any significant gold values.

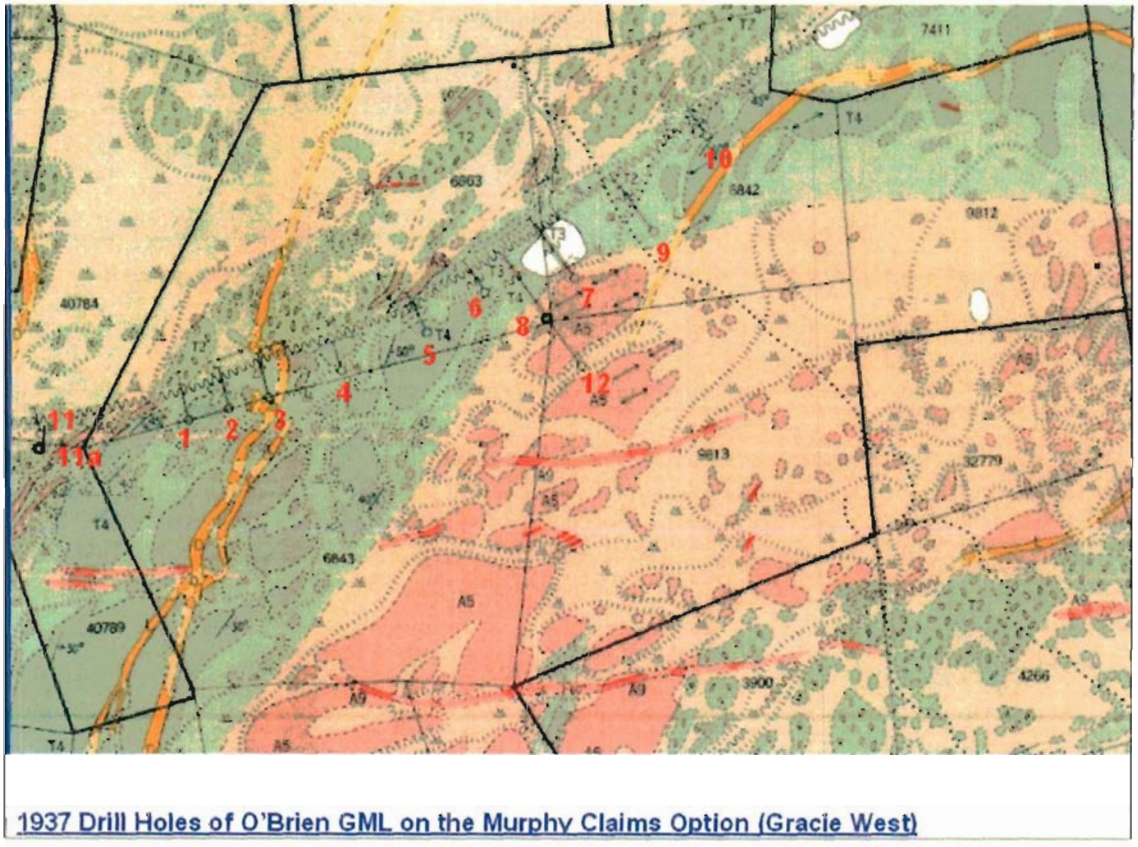


Figure 3 – Murphy Property Drilling

DIAMOND DRILLING PROGRAM

Diamond drill targets were derived by using a combination of geological mapping, prospecting and geophysics. Prospecting over the north portion of the property, and 400' north of the projected location of the Kirkland Lake Main Break returned a grab sample of sheared conglomerate which assayed 1,320 ppb (0.038 opt) and was tested by drill hole GW-0501. GW-0502 was an undercut of GW-0501 and GW05-03 tested a structure defined by mapping located 2,600' south of the Main Break.

Logging was completed by Kirkland Lake Gold geological staff and the core is stored at the Macassa #3 shaft storage facility. All assaying was completed by Swastika Laboratories.

A total of 2,928 feet or core, BQ size, was drilled in three holes (DDH GW-0501; 742 feet, GW-0502; 750 feet and GW-0503; 1436 feet) during the month of December 2005. Each hole was logged on PROLOG based electronic files, exportable in DATAMINE and PROMINE for data compilation and integration.

DRILL HOLE	LAT	LONG	AZ	DIP	LENGTH
GW-0501	16+00N	156+00W	340	-45	742.0'
GW-0502	13+00N	156+00W	330	-45	750.0'
GW-0503	13+00S	138+00W	330	-45	1436.0'

Drill Hole Summary

DDH-GW0501 starts with a 10 feet casing followed by a 75 feet sequence of matrix-supported conglomerate (Chaput-Hughes Formation), of 30% polymictic clasts with occasional jasper and pyrite in beds. The sequence is 40% fractured with 10% local foliations, infilled with quartz-carbonate stringers. A 93 feet thick diabase dike, in a strong chloritic faulted upper contact at 85 feet down hole, intrudes the conglomerate sequence. The diabase is a medium grained holocrystalline, green altered, weakly to moderately magnetic, with 10 to 30% hairline fractures infilled with epidote and carbonate stringers with occasional veinlets. In lower contact, from 178 to 225 feet down hole, the diabase is partitioned in small sequences with the conglomerate into shear zones with crushed core and quartz veins breaks. The conglomerate sequence evolves into a 60% clast-supported type with medium grained textured greywacke matrix with jasper clasts in contact with a greywacke sequence at 260 feet down hole. A three inches diabase dike intrudes the upper greywacke contact displaying mineral and stretching lineations in chilled contact. The greywacke upper-sequence is medium to coarse grained, sub-rounded, with 5% polymictic clasts and jasper, in an undefined gradational contact with the conglomerate. The greywacke is also partitioned into small units, overall fractured at 20%, injected with quartz-carbonate stringers, veinlets and diabase dikes, with occasional sheared deformed conglomerate sequences displaying strong stretching lineations (from 600 to 660 feet down hole). The end-of-hole is at 741.6 feet. Several gold anomalies were encountered in the first 50 feet, mostly in the range between 50 and 200 ppb related to

various structures mineralized with pyrite. The highest value (202 ppb Au) was encountered near surface at 15 feet down hole, most likely correlating with the 1320 ppb surface anomaly of outcrop GW-032 .

DDH-GW0502 starts with a 11 feet casing, followed by a 140 feet metavolcanic sequence from the Blanche River Tuff Formation, composed of strongly magnetic fine to medium grained pyroclastic flows interbedded with fine layers of reworked non-magnetic tuff, fractured and injected with epidote, quartz-carbonate stringers and small mafic dikes. Alterations are hematitic and chloritic. In contact with the tuff, a conglomerate sequence starts at 150 feet down hole; witch is intruded by 170 feet of diabase in a sheared foliated mylonitic upper contact, displayed by strongly sheared clasts and fault gouge with quartz-carbonate. The diabase is moderately to strongly magnetic medium grained hypidiomorphic granular texture, with dark green chloritic alteration, fractured at 40% and injected with epidote veinlets and stringers. A small conglomerate unit, with strongly sheared clasts, is partitioned into the diabase in contact with grinded and disked core (from 255 to 280 feet down hole). The conglomerate unit is mostly 60% clast supported with strongly deformed sheared clasts in certain areas (specifically around 390 and 495 feet down hole) with stretching lineations and foliations mineralized with quartz-carbonate stringers and 3-5% disseminated sulphides. A thirty inch (30") quartz-carbonate breccia in chloritic slips appears at 430 feet down hole at shallow core angle (30° to core angle), sub-perpendicular to the main general structural trend, which could correspond to a north oriented subsidiary fault. The greywacke sequence is interbedded with a 20 feet magnetic tuff sequence (from 560 to 585 feet down hole), mostly bleach altered, fractured and injected with quartz-carbonate stringers. The greywacke sequence evolves into a medium to fine grained matrix with less than 3% clasts, and occasional reddish jasper, interbedded with layers of weakly magnetic reworked tuff with sulphide beds. The end-of-hole is at 750 feet. The highest gold anomalies are encountered in two distinct zones, the first at 110-155 feet down hole with 243 and 261 ppb, and the second at 375-400 feet down hole with 165 and 261 ppb. The first zone correlates with the inferred Kirkland Main Break described as a strong foliated break zone composed of lithified cataclasite with fault gouge injected with quartz-carbonate veins with sulphides. The second zone correlates with the near surface gold anomaly of DDH GW0501 (15 feet down hole), with stretched clasts in a foliated greywacke matrix mineralized with 3% to 10% disseminated pyrite, same as described for sample GW-032A with 1320 ppb Au.

DDH-GW0503 starts with a 10 feet casing, followed by 60 feet of conglomerate of the Teck Formation, polymictic clast-supported in a fine grained dark green chloritic matrix. Underlain in a faulted contact follows a 55 feet greywacke sequence, mostly composed of mudstone of apple-green color, fractured and injected with quartz-carbonate veins and stringers in a thirty feet strong foliated zone from 70 to 100 feet down hole. A fifty foot thick metavolcanic ash-lapilli tuff sequence follows at 125 feet down hole, with an overall surface bedding of 35°, highly altered, chloritic, serecitic and locally hematitic type, injected with occasional quartz-carbonate brecciated veins. The last 1260 feet of core (from 176 feet to the end-of-

hole at 1436 feet down hole) are alkaline intrusive rocks, composed of mafic syenite with occasional syenite porphyry inclusions, mostly rounded. The petrogenesis is of lamprophyre type characterized with calcite phenocrysts and clinopyroxenes in an orthosic groundmass with medium grained chloritic clots, occasionally intruded by small porphyry dikes and quartz-carbonate veins. A small metavolcanic sequence is present around 400 feet down hole with a 38" strong faulted zone. No significant gold anomalies were found, with the highest values (82 ppb) at 600 feet and 900 feet down hole.

CONCLUSIONS AND RECOMMENDATIONS

In order to further investigate the spatial distribution of the selected areas of the Gracie West property, the following recommendations are oriented in a MMI geochemical sampling over 14 selected sites on the property, shown on the surface map (Drawing no.1), for an amount of $25,000, followed by a stripping program on the resulting anomalies for an amount of $15,000, for a total budget of $ 40,000. The selected sites are along hydrothermal vanadium and rubidium enriched geochemical anomalies and strong resistivity contrast anomalies developed in structure related sulphide-rich and/or quartz-carbonate stringers.

Should the results prove worthy of such, in reference with the structures and gold values expectations, then another core drilling program should be initiated to test the selected successful sites.

Respectfully submitted

Stewart Carmichael, B.Sc., P.Geo
Chief Exploration Geologist, Kirkland Lake Gold Inc.

Appendix A

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

4. I have worked as a geologist for a total of 22 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 20th Day of August, 2007

(Signed)

_____

Stewart Carmichael, P.Geo.
Chief Exploration Geologist

Appendix B

REFERENCES

Bass, M.N.
1961: Regional Tectonics of Part of the Southern Canadian Shield, J. Geol. Vol.69, No.6, p668-702.

Charlewood, G. H. (1964): Gelogy of deep developments on the Main Ore Zone at Kirkland Lake. Ontario Department of Mines Geological Circular No. 11, 49 p.

Colvine, A.C. *et al.*
1988: Archean Lode Gold Deposits in Ontario; Ontario Geological Survey, Miscellaneous Paper 139, p.43.

Gordon, J.B., Lovell, H.L., de Grijs, Jan and Davie, R.F.
1979: Gold Deposits of Ontario, Part 2: Part of District of Cochrane, Districts of Muskoka, Nipissing, Parry Sound, Sudbury, Timiskaming and Counties of Southern Ontario; Ontario Geological Survey, Mineral Deposits Circular 18, 253p.

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.

Jenson, L.S., and Langford, F.F. 1985: Geology and Petrogenesis of the Archean Abitibi Belt in the Kirkland Lake Area, Ontario; Ontario Geological Survey, Miscellaneous Paper 123, 130p.

Lackey, T.,N. 1990. Alkaline Tuffs at Kirkland Lake, Ontario. Thesis for Master of Science (Engineering). Department of Geological Sciences of Queen's University, Kingston, Ontario.

Savage, W.S., 1964: Mineral Resources and Mining Properties in the Kirkland Lake -Larder Lake Area; Ontario Department of Mines, Mineral Resources Circular No. 3, 108p.

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

Appendix B

Diamond Drill Logs and Assay Certificates

CEGEP Rouyn-Noranda
DRILLING LOG

Property: GRACIE WEST

Hole no: GW-0501 Zone no: Contractor: Heath & Sherwood Started: 19/12/2005
Canton : TECK Completed: 22/12/2005
Lot : Rang : Claim no: 6863

Puit # : Level : SURFACE Section: 156 WEST Working officGracie West

Collar coordonate : Line : 156+ 0 W Latitude: 6350.00N Azimuth: 340° 0' 0"
Station: 16+ 0 N Longitude: -1300.00E Dip: -45° 0' 0"
Reference system : Elevation: -75.00 Depth: 741.60

Deviation tests :

Depth	Dip	Az Truth
721.60 F	-42°40'20"	344°25' 5"

Comments :

Water debit: Plug: Car érée: BQ
Cement : Core size: Localisation :
Description :

Logged by : P. VINCENT Date logged: 04/01/2006 Hole no. GW-0501

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
0.00	10.40	CASING									
10.40	83.30	CONGLOMERATE: L/C @ 60 TCA. In faulted Chloritic contact w/ Diabase dike. Matrix supported w/ 30% clast & jasper & Py in beds. 40% fractured w/ locally foliated 10% infilled w/ QCarb Stringers.									
		10.40 - 12.00 10% Py in conglomerate matrix	155704	10.40	12.00	1.60	.001				
		12.00 - 13.00 fractured 10% crushed	155701	12.00	13.00	1.00	.001				
		13.00 - 14.00 Fractured Faulted QCarb Vein w/ chloritic slip @ 35 TCA. 13.60 - 13.65 0.5" QCarbV @ 35 TCA w/ chl slp	155702	13.00	14.00	1.00	.003				
		14.00 - 15.00 Locally frac fol @ 60 TCA	155703	14.00	15.00	1.00	.006	.006	.006		
		15.00 - 17.00 As above	155705	15.00	17.00	2.00	.001				
		17.00 - 20.00 As above wt 10% infilled Carb stringers.	155706	17.00	20.00	3.00	.001				
		20.00 - 22.00 As above w/ 10% Py in greywacke matrix w/ Carb Stringers 20%	155707	20.00	22.00	2.00	.004				
		22.00 - 23.00 Fra fol locally @ 65 TCA infilled w/ Carb stringers w/ 3% Py	155708	22.00	23.00	1.00	.002				
		23.00 - 25.00 As above 1% Py fra fol@50 TC	155709	23.00	25.00	2.00	.001				
		25.00 - 26.00 Fracture Brecciated 60% infilled w/ QCarb flood. Breccia Fault Break? w/ foliation slp chl. 25.30 - 25.70 0.4" QCarb BRK @70	155710	25.00	26.00	1.00	.002				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		26.00 - 27.00 Fra Fol@50	155711	26.00	27.00	1.00	.001				
		27.00 - 29.90 Intensely fractured core 50% altered, chl	155712	27.00	28.00	1.00	.001				
			155713	28.00	30.50	2.50	.001				
		29.00 - 31.50 Frac split pebbles @ 50 TCA for 30% infilled w/ QCarb Stringers.	155714	30.50	31.50	1.00	.001				
		31.50 - 32.50 Frac 20% QCarb Slip @ 30 TCA chl.	155715	31.50	32.50	1.00	.001				
		32.50 - 33.70 As above 30% QCarb @ 30 TCA	155716	32.50	33.70	1.20	.001				
		33.70 - 34.70 fracfol@70 TCA Myl? w/ mineral lineations	155717	33.70	34.70	1.00	.001				
		34.30 - 34.50 2"Myl@70 lineations									
		34.70 - 36.00 frac 10% infilled w/ QCarb stringers	155718	34.70	36.00	1.30	.001				
		36.00 - 38.00 frac fol @ 70 10% QCab Stringers	155719	36.00	38.00	2.00	.001				
		38.00 - 41.00 As above	155720	38.00	41.00	3.00	.001				
		41.00 - 42.00 fra@80 Brk flt chl Py 1-2%	155721	41.00	42.00	1.00	.001				
		41.50 - 41.55 0.5" FraChlslp@80									
		42.00 - 44.00 frac fol @ 50 Py 1-2%	155722	42.00	44.00	2.00	.002	.003	.0025		
		44.00 - 46.00 As above w/ chl slp @ 40 TCA w/ QCarb stringers.	155723	44.00	46.00	2.00	.001				
		46.00 48.00 Fol frac @ 60 TCA chl slp 30% infilled w/ QCarb Stringers	155724	46.00	48.00	2.00	.002				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		48.00 - 51.50 Fol frac @ 60 w/ 10% QCarb stringers	155725	48.00	51.50	3.50	.001				
		51.50 - 52.70 frac fol @ 30 TCA w/ 20% QCarb stringers & chl slip.	155726	51.50	52.70	1.20	.001				
		52.70 - 53.70 As above	155727	52.70	53.70	1.00	.001	.001			
		53.70 - 54.70 Fra Fol@ 70 QCarb Stringers 20%	155728	53.70	54.70	1.00	.001				
		54.70 - 56.20 fol @ 50	155729	54.70	56.20	1.50	.001				
		56.20 - 57.20 As above	155730	56.20	57.20	1.00	.002				
		57.20 - 58.20 fol frac @ 60 w/ Chl slp Py 5%	155731	57.20	58.20	1.00	.001				
		58.20 - 59.20 As above	155732	58.20	59.20	1.00	.001				
		59.20 - 60.20 As above w/ chl slp& QCarb stringers	155733	59.20	60.20	1.00	.001				
		60.20 - 62.70 Fol frac @ 60 Chl slp QCarb stringers 10% & py 5%	155734	60.20	62.70	2.50	.001				
		62.70 - 63.70 50% frac w/ chl slp altered w/ QCarb stringers	155735	62.70	63.70	1.00	.001				
		63.70 - 65.00 10% fra fol @ 40	155750	63.70	65.00	1.30	.001				
		65.00 - 66.00 Intense chl alteration foliation @ 70 TCA	155736	65.00	66.00	1.00	.001				
		66.00 - 69.00 3-5% hairline frac @ 40 fol	155737	66.00	69.00	3.00	.001				
		69.00 - 70.50 As above	155738	69.00	70.50	1.50	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		70.50 - 71.50 Intense chl alteration in QCab BRK Slp @ 20 TCA w/ Py 3-5%	155739	70.50	71.50	1.00	.001				
		71.00 - 71.10 1"BRK QCarb Chl slp @ 30 w/ Py 1-3%									
		71.50 - 74.00 fra fol 10%hairline @ 60 TCA	155740	71.50	74.00	2.50	.001				
		74.00 - 76.00 As above	155741	74.00	76.00	2.00	.001				
		76.00 - 78.00 As above	155742	76.00	78.00	2.00	.001				
		78.00 - 80.40 As above	155743	78.00	80.40	2.40	.001				
		80.40 - 81.40 BRK @ 50 TCA w/ chloritic gouge, foliated	155744	80.40	81.40	1.00	.001				
		81.40 - 82.40 As above	155745	81.40	82.40	1.00	.001				
		82.40 - 83.40 As above	155746	82.40	83.40	1.00	.001				
83.30	176.00	DIABASE: nedium grained Green altered weakly to moderately magnetic fractured w/ 10 to 30% hairlines fractures infilled w/ epidote and Carb veins and stringers. Strong Chloritic Break at upper margin w/ conglomerate and chilled margin at lower contact.									
		83.40 - 84.40 BRK FLT@60 TCA w/ strong Chl slp Q QCarb Vein									
		83.40 - 83.70 4" strong Chl FLT @ 70 QCarbV	155747	83.40	84.40	1.00	.001				
		84.40 86.00 frac	155748	84.40	86.00	1.60	.001				
		86.00 89.50 Small conglomerate unit frac fol @ 60 TCA	155749 155751	86.00 86.00	86.10 89.50	0.10 3.50	.003 .001	.003	.003		Blank

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		106.00 - 107.50 Check core	155758	106.00	107.50	1.50	.001				
		107.50 - 109.00 Strong Chloritic FLT Myl Fol @ 50 TCA w/ conjugated QCarbV @ 40 TCA. 107.50 - 107.70 3" Chl FLT@50	155757	107.50	109.00	1.50	.001				
		109.00 - 111.00 Altered fol fra @ 40 TCA, chl slp	155752	109.00	111.00	2.00	.001				
		111.00 - 114.00 fol frac@50	155756	111.00	114.00	3.00	.001				
		114.00 - 115.00 As above	155753	114.00	115.00	1.00	.001				
		115.00 - 116.00 BRK@80 115.55 - 115.65 1" QCarb Chl Slp FLT@80 TCA	155754	115.00	116.00	1.00	.001				
		116.00 - 117.00 Check core	155755	116.00	117.00	1.00	.001				
176.00	183.00	CONGLOMERATE: Undefined contact, mostly clast supported (60%), with medium grained textured greywacke matrix w/ jasper clast.									
		176.00 - 177.00 Frac QCarb Stringers	155778	176.00	177.00	1.00	.001				
		177.00 - 178.00 Frac @ 60 TCA Silicified laminated foliated & mineralized w/ fine disseminated Pyrite 5%. 177.00 - 177.50 3" QV BRK @ 60 TCA Py	155779	177.00	178.00	1.00	.003	.002	.0025		
		178.00 - 179.00 Check core w/ sericite chlorite carbonate infilled fractures	155780	178.00	179.00	1.00	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		179.00 - 180.00 As above 30% fractured	155781	179.00	180.00	1.00	.002				
		180.00 - 181.00 As above	155782	180.00	181.00	1.00	.002				
		181.00 - 183.00 Frac deformed clasts @ 60 TCA	155783	181.00	183.00	2.00	.001				
183.00	189.00	DIABASE: Fine grained Green grey dark, moderately magnetic, fractured w/ 10-30% hairline frac infilled w/ epidote & Carb stringers. U/C @ 40 TCA w/ Chilled margin.									
		183.00 - 186.00 frac sericite chlorite stringers 20%	155784	183.00	186.00	3.00	.001				
		186.00 - 187.00 broken crushed 10%	155759	186.00	187.00	1.00	.001				
		187.00 - 189.00 As above crushed fractured 50% core.	155760	187.00	189.00	2.00	.001				
189.00	216.00	CONGLOMERATE: Polymictic mostly clast supported, Jasper clast.									
		189.00 - 190.00 Fractured conglomerate bordering a small QCarb BRK slip 0.05".	155761	189.00	190.00	1.00	.001				
		190.00 - 191.00 Fresh conglomerate intruded by 8" dike displaying stretching lineations subparallel to contact. 190.80 - 198.90 4" Intermediary Dike w/ contact @ 60 TCA w/ chilled margins.	155762	190.00	191.00	1.00	.002	.001	.0015		
		191.00 - 192.00 Fresh conglomerate.	155763	191.00	192.00	1.00	.001				
		192.00 193.00 Fresh conglomerate w/ strong chloritic slip @ 30 TCA.	155764	192.00	193.00	1.00	.001				
		193.00 194.00 Strongly altered conglomerate w/ Qtz									

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		floodings , chloritisation, sericite veining and carbonate, apple green sericite colour.Brecciated and foliated @ 40 TCA.									
		193.00 - 194.00 12" QV w/ strong break w/ altered brecciated conglomerate w/ sericite-carbonate veining foliated @ 40 TCA.	155765	193.00	194.00	1.00	.001				
		194.00 - 195.00 Check core in fresh conglomerate.	155766	194.00	195.00	1.00	.001				
		195.00 - 196.00 As above	155767	195.00	196.00	1.00	.001				
		196.00 - 198.00 Slightly deformed w/ deformation @ 40 TCA	155772	196.00	198.00	2.00	.001				
		198.00 - 199.00 Deformed conglomerate clast & matrix w/ foliation @ 40 w/ weak chloritic stretch 198.50 - 198.60 1.5" Fol Myl FLT @ 40 Silicified & chloritized	155773	198.00	199.00	1.00	.001				
		199.00 - 201.00 Deformed conglomerate w/ stretched clasts in foliated matrix @ 50 TCA.	155774	199.00	201.00	2.00	.001				
		211.60 - 212.60 Fresh conglomerate check core	155768	211.60	212.60	1.00	.001				
		212.60 - 213.60 Strong altered BRK w/ QV flooding w/ sericite & carbonate alteration (apple green colour). En-Echelon BRK @ 30 TCA in QCarbV. 213.10 - 213.20 1.5"QCarbV @ 30 TCA En-Echelon tensional dilation jogs infilled w/ sericite.	155769	212.60	213.60	1.00	.001				
		213.60 - 216.00 Fresh conglomerate check core	155770	213.60	216.00	2.40	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
216.00	222.30	DIABASE: Fine grained green dark to grey, fractured w/ 30% hairline frac infilled w/ Carb & Epidote, moderately to strongly magnetic. Upper contact @ 50 TCA w/ chilled margins.									
		216.00 - 218.00 Fractured chloritized	155771	216.00	216.10	0.10	.003				Blank
			155775	216.00	218.00	2.00	.001				
		218.00 - 220.00 As above w/ 20% epidote stringers @ 40 TCA	155776	218.00	220.00	2.00	.001				
		220.00 - 222.30 As above	155777	220.00	222.30	2.30	.001				
222.30	258.60	CONGLOMERATE: Polymictic clast supported									
		222.30 - 224.30 Check core in fresh conglomerate									
		235.50 - 235.80 2" Strongly altered Sheared breccia in Chl Slp@30 TCA.									
258.60	595.00	GREYWACKE: medium to coarsed grain,and w 5% clasts polymictic w/ jasper. U/C @ 35 TCA, w/ 3" IDK. Overall fractured 20% injected w/ QCarb stringers and veinlets.									
		258.60 - 258.80 3" IDK @ 35 TCA w/ mineral and stretching lineations w/ chilled contact Chl Carb slp.									
		281.00 - 282.50 Check core in fresh greywacke	155785	281.00	282.50	1.50	.001				
		282.50 - 283.50 1" thick disseminated Pyrite 10%	155786	282.50	283.50	1.00	.001				
		283.50 - 285.00 Check core in fresh greywacke.	155787	283.50	285.00	1.50	.001				
		316.00 317.00 Broken core fractured injected w/ 10% QCarb Breccia.	155788	316.00	317.00	1.00	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		317.00 - 318.00 6" Brecciated QCarb and chloritic alteration	155789	317.00	318.00	1.00	.001				
		318.00 - 319.00 As above QCarb Breccia @ 45	155790	318.00	319.00	1.00	.001				
		324.80 - 324.85 1" CarbV @ 50 TCA									
		336.80 - 336.85 1"CarbV@60 TCA									
		368.50 - 369.50 0.5" fine disseminated sulphide horizon w/ QCarb injected fractures 10%.	155791	368.50	369.50	1.00	.003	.002	.003		
		424.00 - 425.00 Strong Chloritic Carb Slip @ 60 W/ 10% fine dissem Py bed.	155792	424.00	425.00	1.00	.001				
		424.30 - 424.35 1"strong Chl Carb Slip @ 60 TCA Py fine dissem 10%									
		434.00 - 435.00 10% QCarb frac array @ 35 TCA.	155793	434.00	435.00	1.00	.001				
		435.00 - 436.00 2"QCarbV@35 TCA	155794	435.00	436.00	1.00	.001				
		435.50 - 435.60 2"QCarbV@35 TCA									
		436.00 - 437.00 15% QCarbV array overall @ 30 TCA	155795	436.00	437.00	1.00	.001				
		437.00 - 438.00 QCarb Breccia	155796	437.00	438.00	1.00	.001				
		437.50 - 437.70 4"QCarb breccia									
		438.00 - 439.00 3" Mafic dike strongly magnetic	155797	438.00	439.00	1.00	.001				
		438.55 - 438.85 3"Diabase, magnetic fine grained in									

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		contact w/ chloritic slip @ 40 TCA, injected w/ late QCarb Veins.									
		439.00 - 441.00 Check core	155798	439.00	441.00	2.00	.001				
		441.00 - 442.00 2.5" Mafic dike @ 30 TCA in chl slp contact.	155799	441.00	442.00	1.00	.001				
		441.40 - 441.60 2.5" Mafic Dike in slp contact @ 30 TCA, mineralized w/ 10% fine dissem Py.									
		486.00 - 487.20 Strong QCarb Brecciated zone @ 40 TCA, w/ 30% frac array mineralized w/ 2% dissem Py	155803	486.00	487.20	1.20	.001				
		519.00 - 520.00 1" QCarb Bx foliated crushed @ 70 TCA w/ tr fine dissem Py.	155800	519.00	520.00	1.00	.001				
		519.55 - 519.65 1"QCarbV Breccia fol@70 TCA									
		533.50 - 534.50 5% disseminated sulphides 2" layer.	155801	533.50	534.50	1.00	.001				
		534.50 - 535.50 Chloritic FLT @ 50 TCA									
		534.50 - 535.55 0.5" Chloritic FLT @ 50 TCA	155802	534.50	535.50	1.00	.001				
595.00	613.20	CONGLOMERATE: Polymictic, clast supported w/ 40% moderately sheared deformed clasts in coarsed grained greywacke matrix displayed by stretching lineations @ 50 TCA.									
613.20	649.80	GREYWACKE: U/C in faulted contact QCarb slip 0.5" @ 45 TCA. Medium grained. Frac 10% infilled w/ QCarb V breccias and stringers.									
		613.20 - 614.20 Frac array 0.5 to 1.5" QCarb Slp & Vein @ 45 TCA.	155804	613.20	614.20	1.00	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		613.60 - 613.70 1" QCarbV Brecciated foliated @ 40 TCA.									
		636.00 - 637.00 2" QCarbV w/ chl slip @ 40 TCA 636.40 - 636.55 2"QCarbV Bx @ 40 TCA.	155805	636.00	637.00	1.00	.001				
		640.00 - 641.00 As above, 0.6" QCarbV @ 40 TCA. 640.50 - 640.55 0.6"QCarbV@30 TCA.	155806	640.00	641.00	1.00	.001				
		644.00 - 645.00 As above @ 70 TCA QCarb W/ Chl slp. 644.70 - 647.75 0.6" QCarb Slp@70	155807	644.00	645.00	1.00	.001				
649.80	661.00	CONGLOMERATE: Polymictic Clast supported 30% clasts. U/C bedding @ 30 TCA.									
		653.80 - 654.80 1" QCarb Brecciated Slp @ 40 TCA 654.30 - 654.40 1"QCarb Bx @ 40 TCA.	155808	653.80	654.80	1.00	.001				
661.00	741.60	GREYWACKE: Fine to medium grained, w/ less than 5% polymictic and jasper clasts. Overall fractured 10% infilled w/ QCarb V & Strg. U/C undefined gradational.									
		661.00 - 662.50 1.5"QCarbV@60 TCA. 661.80 - 661.95 1.5"QarbV@50 TCA.	155809	661.00	662.50	1.50	.001				
		666.00 - 667.00 Frac IDK @ 65 TCA w/ QCarbV. 666.40 666.70 IDK @ 65 TCA.	155810	666.00	667.00	1.00	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		667.00 - 668.70 Frac QCarbV @ 30 TCA. Tr Py in matrix.	155811	667.00	668.70	1.70	.001				
		668.70 - 669.70 QCarbV @ 0 TCA (parallel to core).	155812	668.70	669.70	1.00	.001				
		686.70 - 687.70 0.5"QCarbV@30 TCA.	155813	686.70	687.70	1.00	.001				
		687.30 - 687.35 0.5"QCarbV@30 TCA.									
		693.30 - 694.30 IDK @ 60- TCA L/C.	155814	693.30	694.30	1.00	.001				
		694.30 - 696.00 FRac @ 30 QCarbV w/ dissem Py 2% in matrix.	155815	694.30	696.00	1.70	.001				
		704.00 - 705.00 1"QCarbV@30 TCA.	155816	704.00	705.00	1.00	.001				
		704.50 - 704.55 1"QCarbV@30 TCA.									
			155817	705.00	705.10	0.10	.001				Blank
		712.40 - 713.40 1"QCarb chl slp @ 35 TCA.	155818	712.40	713.40	1.00	.001				
		712.54 - 712.55 1"QCarbV strong Chloritic slip@ 35 TCA.									
		715.50 - 716.50 2" strong QCarb Breccia@ 60 TCA	155819	715.50	716.50	1.00	.001				
		716.50 - 717.50 1.25"QCarbV@30 TCA.	155820	716.50	717.50	1.00	.001				
		717.00 - 717.50 1.25"QCarbV@30 TCA.									
		717.50 - 718.50 As above	155821	717.50	718.50	1.00	.001				
		718.00 718.50 1"QCarbV@30 TCA.									

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		724.00 - 725.00 QCarbV array@50 TCA.	155822	724.00	725.00	1.00	.001				
		737.80 - 738.80 3"QCarbV Brecciated Slip @ 40 TCA.									
		738.00 - 738.38 3"QCarbV breccia slip @ 40 TCA.									
		741.60 - 741.60 End-of-Hole.									
		END OF HOLE									
		Total samples : 122 Total footage sampling : 167.20 F									

S. Carmichael
Aug 07

CEGEP Rouyn-Noranda
DRILLING LOG

Property: GRACIE WEST

Hole no: GW-0502 Zone no: Contractor: Heath & Sherwood Started: 13/12/2005
Canton : TECK Completed: 18/12/2005
Lot : Rang : Claim no: 6863

Puit # : Level : Surface Section: 156 WEST Working officGRACIE WEST

Collar coordonate : Line : 156+ 0 W Latitude: 6050.00N Azimuth: 330° 0' 0"
Station: 13+ 0 N Longitude: -1200.00E Dip: -45° 0' 0"
Reference system : Elevation: -75.00 Depth: 750.00

Deviation tests :

Depth	Dip	Az Truth
730.00 F	-39°57'57"	324°40' "

Comments :

Water debit: Plug: Car érée: BQ
Cement : Core size: Localisation :
Description :

Logged by : P. VINCENT Date logged: 06/01/2006 Hole no: GW-0502

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
0.00	10.60	CASING:									
10.60	148.00	TUFF: Fine to medium grained, mostly pyroclastics magnetic, interbedded w/ fine layers of reworked tuff non-magnetic, overall bedding @ 70 TCA. Fractured and injected w/ QCarb stringers and w/ mafic dikes. Chloritic, epidotic, hematitic alterations.									
		44.00 - 45.20 Tuff fine ash to lapilli, chlo, Hem, Epidote.	155824	44.00	45.20	1.20	.001				
		45.20 - 46.30 Strong Flt Chloritic slip @ 70 TCA, foliated.	155825	45.20	46.30	1.10	.001				
		45.60 - 45.75 1.5" Stromg Chl FLT @ 70 Foliated.									
		46.30 - 47.30 Tuff fine ash to lapilli, Frac injected w/ QCarb stringers.	155826	46.30	47.30	1.00	.001				
		47.30 - 48.80 Tuff fine ash to lapilli, altered	155827	47.30	48.80	1.50	.001				
		48.80 - 50.00 Altered frac @ 50 Carb Epidote.	155828	48.80	50.00	1.20	.001				
		50.00 - 51.00 FRactured core altered.	155829	50.00	51.00	1.00	.001	.001	001		
		51.00 - 53.00 Altered frac @ 50 TCA Chl slp epidote veinlets.	155830	51.00	53.00	2.00	.001				
		53.00 - 54.00 Dark grey Diabase dike @ 60 TCA.									
		53.00 - 53.50 5" Diabase dike @ 60 TCA, strongly magnetic, fine grained dark grey in colour.	155831	53.00	54.00	1.00	.001				
		54.00 55.00 As above	155832	54.00	55.00	1.00	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		54.40 - 54.70 2" Diabase Dike @70									
		55.00 - 56.00 As above	155833	55.00	56.00	1.00	.001				
		55.50 - 56.00 2" Diabase Dike @ 70 TCA									
		56.00 - 57.00 FRac @ 30 TCA w/ Fine grained IDK									
		56.00 - 56.50 1"IDK@30	155834	56.00	57.00	1.00	.001				
		66.00 - 67.00 Tuff frac epidote @ 70 TCA	155835	66.00	67.00	1.00	.001				
		67.00 - 68.00 Mafic dike									
		67.00 - 67.80 Diabase or Mafic Dike @ 20 TCA.	155836	67.00	68.00	1.00	.001				
		68.00 - 69.00 Frac @ 30 TCA Carb, epidote.	155837	68.00	69.00	1.00	.001				
		99.00 - 100.00 Frac @ 30 TCA QCarb V 0.5".	155838	99.00	100.00	1.00	.001				
		99.50 - 99.56 0.5"QCarbV@30.									
		105.00 - 106.00 FRac@20 TCA Epidote QCarb Slip.	155839	105.00	106.00	1.00	.002				
		105.50 - 105.53 0.25"QCarb epidote Chl Slp @ 20 TCA.									
		106.00 - 107.00 FRac QCarb V @ 60 TCA w/ Epidote Chlorite	155840	106.00	107.00	1.00	.001				
		106.50 - 106.55 1"QCarbV@60 TCA.									
		107.00 - 108.00 frac@60 QCarbV	155841	107.00	108.00	1.00	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		108.00 - 109.50 Tuff Check core	155842	108.00	109.50	1.50	.001				
			155843	109.50	109.60	0.10	.001	.001	.001	Blank	
			155844	109.60	110.50	0.90	.001				
		109.65 - 110.50 Frac QCarbV @ 65 TCA.									
		109.80 - 119.85 0.5" QCarbV @ 50 TCA.									
		110.50 - 111.50 FRa fol @ 50 QCarbV	155845	110.50	111.50	1.00	.007				
		111.50 - 112.50 frac @ 40 TCA QCabV slp	155846	111.50	112.50	1.00	.001				
		112.00 - 112.05 0.5"QCarb Slp @ 40 TCA.									
		116.00 - 117.00 Fra @ 65 TCA QCarbV.	155847	116.00	117.00	1.00	.001				
		116.50 - 116.60 1"QCarbV @ 65 TCA.									
		117.00 - 118.00 Check core.	155848	117.00	118.00	1.00	.001				
		118.00 - 119.00 FRac@40 TCA. QCarbC.	155849	118.00	119.00	1.00	.001				
		118.30 - 118.60 3.5"QCarbV @ 40 TCA, slp chl.									
		125.00 - 126.00 Strongly altered cl epidote QCarb FLT foliatedshear zone or lithified cataclasite @ 60 TCA.	155850	125.00	126.00	1.00	.001	.001	.001		
		125.30 - 125.80 4.5"FLT@60TCA MYL									
		134.00 - 136.00 Strong SHEAR foliation @ 50 TCA QCarb Chl slp.	155851	134.00	136.00	2.00	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		136.00 - 137.00 Frac @ 30 TCA QCarbV.	155852	136.00	137.00	1.00	.001				
		143.00 146.00 As above FLT lithified cataclasite @ 40 TCA QCarbV & Chl slp. 143.60 - 144.40 10" lithified cataclasite Foliated @ 40 TCA. Chl slp.	155853	143.00	146.00	3.00	.001				
		146.00 - 148.00 Altered fractured tuff foliated sheared injected w/ small porphyry dike, QCarbV.	155854	146.00	148.00	2.00	.001				
148.00	160.00	CONGLOMERATE: Mostly matrix supported w/ 30% clast. Heavily deformed and altered foliated w/ strong FLT Mylonite.									
		148.00 - 151.00 Strongly deformed altered conglomerate w/ deformed sheared clasts @ 50 TCA w/ QCarb breccia.	155855	148.00	151.00	3.00	.001				
		151.00 - 155.00 As above.	155856	151.00	152.00	1.00	.001				
			155857	152.00	155.50	3.50	.001				
		155.00 - 156.50 Strong BRK zone foliated @ 40 to 50 TCA, Lithified cataclasite in shear zone injected w/ QCarb slp w/ sulphides. 155.20 - 156.00 8" QCarbV @ 40 TCA	155858	155.50	156.50	1.00	.008				
		156.50 - 158.00 Fractured foliated deformed conglomerate FLT @ 55 TCA mineralyzed w/ Py 3-5%	155859	156.50	158.00	1.50	.001				
		158.00 - 160.00 As above w/ Cruched grinded core, gouge w/ Frac@ 50 QCabV Breccia foliated.	155860	158.00	160.00	2.00	.001	.001	.001		
160.00	255.00	DIABASE DIKE: Medium Grained, dark green chloritic alteration, fractured 30 40% injected w/ epidote veinlets & stringers, magnetic moderatly to strongly.									

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		160.00 - 163.00 Frac altered epidote veinlets wt carb.	155861	160.00	163.00	3.00	.001				
		163.00 - 166.00 Altered frac epidote veinlets.	155862	163.00	166.00	3.00	.001				
		166.00 - 169.00 60% frac hairline veinlets epidote overall @ 45 TCA.	155863	166.00	169.00	3.00	.001				
		254.00 - 255.00 L/C @ 40 TCA w/ conglomerate.	155864	254.00	255.00	1.00	.001				
255.00	281.00	CONGLOMERATE: Mostly clast supported, strongly deformed and foliated @ 70 TCA.									
		255.00 - 256.00 U/C w/ conglomerate @ 40 TCA.	155865	255.00	256.00	1.00	.001				
		262.90 - 266.10 IDK @ 60 TCA Frac QCarbV 10%									
		280.00 - 281.00 Altered stretched conglomerate @ 50 TCA w/ QCarb & chl slp.	155866	280.00	281.00	1.00	.001				
281.00	329.80	DIABASE DIKE:									
		281.00 - 283.00 Strong Chloritic FLT slp @ 50 TCA, broken corevw/ flt gouge grinded core frac & disked.	155867	281.00	283.00	2.00	.001				
		296.00 - 299.00 Altered frac	155868	296.00	299.00	3.00	.001	.001	.001		
		299.00 - 300.00 Strong Slip @ 30 TCA 0.5"	155869	299.00	300.00	1.00	.001				
		299.50 - 299.55 0.4" slp @ 30 TCA foliated shear.									
			155870	300.00	300.10	0.10	.001			Blank	
		327.80 - 329.80 Diabase in contact w/ conglomerate.	155871	327.80	329.80	2.00	.001				
329.80	515.00	CONGLOMERATE: Mostly Clast supported 60%, w/ U/C @ 60 TCA.									

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		329.80 - 331.00 U/C w/ conglomerate.	155872	329.80	331.00	1.20	.001				
		341.00 - 342.80 Frac Fol @ 60 TCA	155874	341.00	342.80	1.80	.001				
		342.80 - 343.80 Frac QCarb chl slp @ 50 TCA	155875	342.80	343.80	1.00	.001				
		350.00 - 351.00 Strong BRK chloritic slp @ 30 TCA brecciated chloritic QCarb breccia. 350.30 - 350.40 1" strong chl FLT shear @ 30 TCA QCarb breccia chloritic.	155873	350.00	351.00	1.00	.001				
		363.60 - 364.60 Sulphides 1-3%	155876	363.60	364.60	1.00	.005				
		364.60 - 365.60 slp @ 20 TCA QCarb Py 3-5%.	155877	364.60	365.60	1.00	.001				
		365.60 - 366.80 AS above QCarbV slp @ 20 TCA 5% disseminated Py. 365.70 - 366.20 QCarb Bx @ 20 TCA Py 5% disseminated	155878	365.60	366.80	1.20	.001				
		366.80 - 368.80 Deformed clast @ 40 TCA stretched.	155879	366.80	368.80	2.00	.001				
		368.80 - 369.80 QCarb shear @ 20 TCA breccia. 368.90 - 369.30 4.5"QCarb Shr Bx @ 20 TCA, Pyrite dissem 3%.	155880	368.80	369.80	1.00	.001				
		369.80 - 370.90 Py 1-2%	155881	369.80	370.90	1.10	.001				
		370.90 - 371.90 Bx slp@ 20 TCA QCarb Py 3% disseminated.	155882	370.90	371.90	1.00	.001				
		371.90 - 372.30 Deformed clast @ 40 dissem sulphides 3-5%	155883	371.90	372.30	0.40	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		372.30 - 373.30 Strong QCarb shear BRK @ 40 TCA, 3-5% sulphides. 372.40 - 372.90 Strong Bx FLT QCarb Shear @ 15 TCA, Py 3-5%.	155884	372.30	373.30	1.00	.001				
		373.30 - 374.30 Sulphides 3-5%	155885	373.30	374.30	1.00	.001				
		374.30 - 376.00 Chloritic alteration fractured foliated	155886	374.30	376.00	1.70	.001				
		376.00 - 377.00 0.5" strong chloritic slip @ 40 TCA.	155887	376.00	377.00	1.00	.001				
		377.00 - 379.00 Sulphides 1-3% in fresh conglomeraste.	155888	377.00	379.00	2.00	.001				
		379.00 - 382.00 Deformed clast @ 30 TCA Sulphides 2-3%	155889	379.00	382.00	3.00	.001				
		382.00 - 383.00 Chloritic alteration strong slip @ 30 TCA, QCarb & sulphides 3%	155890	382.00	383.00	1.00	.001				
		383.00 - 385.00 Fol@40 TCA QCarb Stgs Chloritic slips Sulphides 1-2%	155891	383.00	385.00	2.00	.001	.001	.001		
		385.00 - 386.00 Sulphides 2%	155892	385.00	386.00	1.00	.001				
		386.00 - 388.00 Strongly deformed clasts @ 40 TCA w/ stretching lineations.	155893	386.00	388.00	2.00	.001				
		388.00 - 390.00 Deformed clasts.	155894	388.00	390.00	2.00	.001				
		390.00 - 392.00 Deformed clasts foliated @ 30 TCA w/QCarb stgs, sulphides 3%.	155895	390.00	392.00	2.00	.001				
		392.00 - 394.00 Deformed clast w/ slips @ 30 TCA chloritic QCarb stringers sulphides 3 5%	155896	392.00	394.00	2.00	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		394.00 - 396.00 Deformed clasts. Sulphides 1-2%	155897	394.00	396.00	2.00	.001				
		396.00 - 398.00 Deformed stretched clasts strongly foliated w/ chl QCarb slips @ 20 TCA, sulphides 3-5%	155898	396.00	398.00	2.00	.001				
		398.00 - 399.00 Deformed clasts w/ sulphides 3%	155899	398.00	399.00	1.00	.001				
		399.00 - 401.00 Deformed clast foliated stretched @ 40 TCA w/ slips QCarb sulphides 3-5%	155900	399.00	401.00	2.00	.001				
		401.00 - 402.00 Stretched clasts foliated @ 50 TCA sulphides 3%	155901	401.00	402.00	1.00	.002				
		402.00 - 403.00 As above	155902	402.00	403.00	1.00	.001				
		403.00 - 404.35 AS above	155903	403.00	404.35	1.35	.008	.003	.005		
		404.35 - 406.00 Strong 1" QCarb Bx in chloritic slip FLT @ 10 TCA. Sulphides fine disseminated 10% 404.80 - 404.90 1" QCarbBx in strong chloritic slip FLT@ 10 TCA mineralized w/ fine disseminated Pyrite 10%.	155904	404.35	406.00	1.65	.001				
		406.00 - 408.00 As above @ 30 TCA QCarb Sericite chloritic alteration w/ fine disseminated Py 10% 406.70 406.80 1" strong QCarb Bx in a strong chloritic slips @ 30 TCA w/ sericite Carb Py fine dissem 10%.	155905	406.00	408.00	2.00	.001				
		408.00 410.00 Deformed clasts @ 70 TCA, dissem sulphides 1%	155906	408.00	410.00	2.00	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		410.00 - 411.50 AS above	155907	410.00	411.50	1.50	.001				
		411.50 - 413.00 AS above w/ chloritic slips@50 TCA	155908 155909	411.50 411.60	411.60 413.00	0.10 1.40	.001 .001			Blank	
		413.00 - 416.00 As above w/ sulphides 5%	155910	413.00	416.00	3.00	.001				
		416.00 - 419.00 As above w/ sulphides 1-2%	155911	416.00	419.00	3.00	.001				
		419.00 - 422.00 As above	155912	419.00	422.00	3.00	.001				
		422.00 - 425.00 As above	155913	422.00	425.00	3.00	.001				
		425.00 - 426.00 As above w/ sulphides 3%	155914	425.00	426.00	1.00	.001				
		426.00 - 428.00 AS above	155915	426.00	428.00	2.00	.001				
		428.00 - 430.15 As above Py 1%	155916	428.00	430.15	2.15	.001				
		430.15 - 433.20 Strong BRK QCarb Bx altered sericitic chloritic @ 30 TCA w/ multiple smoky 1" QCarb Veins in strong chloritic slips. 430.70 - 433.20 30" Strong BRK QCarb Bx w/ sericitic, chloritic alteration w/ multiple 1" smoky QCarb veins in strong chloritic slips @ 30 TCA, Sulphides 1%.	155917	430.15	433.20	3.05	.001				
		433.20 - 436.00 Deformed clasts.	155918	433.20	436.00	2.80	.001				
		436.00 - 439.00 Deformed clasts @ 50- TCA w/ locally dissem Py 3% in matrix	155919	436.00	439.00	3.00	.001				
		439.00 - 441.00 As above	155920	439.00	441.00	2.00	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		456.00 - 458.00 Deformed clasts @ 60 TCA, frac QCarb Stgd 5% w/ locally dissem Py 2-5%	155921	456.00	458.00	2.00	.001				
		458.00 - 460.00 AS above w/ QCarb Chl slp @ 30 TCA.	155922	458.00	460.00	2.00	.001				
		460.00 - 463.00 As above w/ 2" Diabase dike @ 50 TCA, magnetic fine grained. 460.50 - 460.60 2" DIABASE Dike @ 50 TCAQ.	155923	460.00	463.00	3.00	.001				
		463.00 - 464.50 Strong BRK QCarb Bx w/ irregular brecciated contact w/ metasomatism bordering @ 40 TCA. 463.40 - 463.85 5" QCarb Bx @ 40 TCA	155924	463.00	464.50	1.50	.001				
		464.50 - 465.50 Frac @ 60 TCA	155925	464.50	465.50	1.00	.001	.001	.001		
		465.50 - 467.00 Strong alteration fracrtured Brecciated QCarb Bx in multiple zones @ 70 TCA. Trace sof sulphides. 465.50 - 466.70 12" QCarb Bx @ 70 TCA in multiple zones.	155926	465.50	467.00	1.50	.001				
		467.00 - 469.00 As above w/ multiple smaller QCarb Bx zones @ 20 to 50 TCA in chl slips w/ sericite.	155927	467.00	469.00	2.00	.001				
		469.00 - 470.00 Heavily fractured broken core	155928	469.00	470.00	1.00	.001				
		470.00 - 473.00 30% fractured injected w/ Carb Chl Sericite veinlets @ 50 to 70 TCA	155929	470.00	473.00	3.00	.001				
			155930	473.00	473.10	0.10	.001			Blank	

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		473.10 - 474.30 Fractured broken core.	155931	473.10	474.30	1.20	.001				
		474.30 - 476.00 Deformed broken clasts.	155932	474.30	476.00	1.70	.001				
		494.00 - 496.00 Deformed sheared clasts @ 30 to 40 TCA, w/ chl slips w/ Brecciated QCarb Bx @ 30 TCA.	155933	494.00	496.00	2.00	.001				
		496.00 - 499.00 AS above	155934	496.00	499.00	3.00	.001				
		499.00 - 501.00 AS above	155935	499.00	501.00	2.00	.001				
		501.00 - 503.00 As above.	155936	501.00	503.00	2.00	.001				
		513.00 - 514.00 Check core in deformed clasts w/ trace of sulphides.	155937	513.00	514.00	1.00	.001				
		514.00 - 515.00 Smal QCarb in a 0.5" slip Brk @ 50 TCA 514.50 - 514.55 0.5"QCarb Bx @ 50 TCA.	155938	514.00	515.00	1.00	.001				
515.00	560.00	GREYWACKE: Gradational undefined contact w/ conglomerate. Less than 3% clasts w/ occasional jasper.									
		515.00 - 518.00 Frac QCarb stgs 10% in medium grained graywacke, overall dissem sulphides 5-10%	155939	515.00	518.00	3.00	.001				
		531.00 - 532.00 QCarb Bx sulphides 2%	155940	531.00	532.00	1.00	.001				
		541.00 - 542.00 Bleached fractured QCarb Bx stgs@ 60 TCA.	155941	541.00	542.00	1.00	.001				
		557.00 558.00 MYL fol @ 50 TCA.	155942	557.00	558.00	1.00	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		557.50 - 557.80 4" FLT @ 50 TCA.									
		558.00 - 560.00 Chloritic Bx gouge.	155943	558.00	560.00	2.00	.001				
560.00	585.20	TUFF: Magnetic mostly Altered Bleached,									
		560.00 - 561.50 Bl frac QCarbC@40TCA	155944	560.00	561.50	1.50	.001				
		560.75 - 560.80 0.5" QCarbV@40 TCA.									
		561.50 - 564.00 Bl frac QCarbV @ 30 TCA.	155945	561.50	564.00	2.50	.001				
		564.00 - 566.00 Bl Frac 20% QCarbV 0.5" array, in slips @ 40 TCA.	155946	564.00	566.00	2.00	.001				
		566.00 - 567.00 Bleached fractured QCarb Stgs @ 40 TCA sulphides 1-2%.	155947	566.00	567.00	1.00	.001				
		567.00 - 569.00 AS above	155948	567.00	569.00	2.00	.001				
		569.00 - 570.00 Shr QCarbV@30 TCA.	155949	569.00	570.00	1.00	.001				
			155950	570.00	570.10	0.10	.001			Blank	
		570.10 - 573.00 Bleached	155951	570.10	573.00	2.90	.001				
		573.00 - 574.00 As above check core.	155952	573.00	574.00	1.00	.001				
		574.00 - 575.00 2" QCarb V @ 40 TCA	155953	574.00	575.00	1.00	.001				
		574.40 - 575.55 2"QCarbV@40 TCA.									
		575.00 - 576.00 Bleached foliated @ 40 TCA.	155954	575.00	576.00	1.00	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		576.00 - 578.00 Bl frac@90 TCA QCarb Stgs veinlets 1%	155955	576.00	578.00	2.00	.001				
		578.00 - 579.00 Bl fracslp@30 TCA chl	155956	578.00	579.00	1.00	.001				
		579.00 - 581.00 As above.	155957	579.00	581.00	2.00	.001				
		581.00 - 583.00 As above.	155958	581.00	583.00	2.00	.001				
		583.00 - 585.20 As above.	155959	583.00	585.20	2.20	.001	.001	.001		
585.20	750.00	GREYWACKE:Mostly medium to fine grained matrix w/ occasional reddish jasper clasts less than 3% clasts, and layers of weakly magnetic reworked tuff w/ Pyrite beds.									
		585.20 - 586.50 frac@70 QCarbV 1%	155960	585.20	586.50	1.30	.001				
		596.00 - 597.00 QCarbV in chloritic slip @ 20TCA	155961	596.00	597.00	1.00	.001				
		709.00 - 711.00 20% QCarv @ 60 TCA w/ layers of Py 10%.									
		709.00 - 750.00 20% Fractured QCarbV overall @	155962	709.00	711.00	2.00	.001				
		736.90 - 737.00 1"QCarbV@40 TCA									
		746.45 - 746.55 1"QCarbV slp@ 35 TCA.									
		750.00 - 750.00 End-Of-Hole.									
		END OF HOLE									
		Total samples : 139 Total footage sampling : 219.50 F									

S. Comichael Aug 07

CEGEP Rouyn-Noranda
DRILLING LOG

Property: GRACIE WEST

Hole no: GW-0503 Zone no: Contractor: Heath & Sherwood Started: 15/12/2005
Canton : TECK Completed: 22/12/2005
Lot : Rang : Claim no: 476846

Puit # : Level : Surface Section: 138 WEST Working officGracie West

Collar coordonate : Line : 138+ 0 W Latitude: 4700.00N Azimuth: 330° 0' 0"
Station: 13+ 0 S Longitude: 1750.00E Dip: -45° 0' 0"
Reference system : Elevation: -75.00 Depth:1436.00

Deviation tests :

Depth	Dip	Az Truth
750.00 F	-41°30' 0"	330° 0' "
1436.00 F	-39°40'40"	357°20' 3"

Comments :

Water debit: Plug: Car érée: BQ
Cement : Core size: Localisation :
Description :

Logged by : P VINCENT Date logged: 11/01/2006 Hole no: GW-0503

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
0.00	11.00	CASING:									
11.00	67.50	CONGLOMERATE: TECK formation composed of Polymictic, mostly clast supported 70% clasts, mostly intrusive lithologies (porphyry syenite, augite syenite, feldspar porphyry, trachyte in pebbles & boulder type clasts) and occasional jasper clasts in a fine grained, dark green chloritic matrix. L/C faultad @ 80 TCA.									
		66.00 - 67.50 Conglomerate fresh below Faulted contact.	155963	66.00	67.50	1.50	.001				
67.50	121.00	GREYWACKE: with mostly mudstones U/C @ 70 TC. Apple green colour fractured injectedw/ QCarbV & stringers.									
		67.50 - 69.50 Apple green mudstone, strong sericitic alteration.	155964	67.50	69.50	2.00	.001				
		69.50 - 70.50 As above 2% frac QCarbV @ 85 TCA.	155965	69.50	70.50	1.00	.001				
		70.50 - 72.50 Asabove fine dissem Py 3%.	155966	70.50	72.50	2.00	.001				
		72.50 - 74.30 AS abobe Py 2-3% fine dissem.	155967	72.50	74.35	1.85	.001				
		74.30 - 75.30 As above QCarbV @ 80 TCA. 74.60 - 74.65 0.5"QCarbV@80 TCA Py 2%	155968	74.35	75.30	0.95	.001				
		75.30 - 76.30 As above 76.00 - 76.10 1"QCarbV@80 TCA, dissem Py 3%	155969	75.30	76.30	1.00	.001				
		76.30 - 77.50 Shr @ 50 TCA Py 2%	155970	76.30	77.53	1.23	.001				
		77.50 79.60 Shr @ 20 TCA QCarb stgs dissem Py 2%	155971	77.53	79.60	2.07	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		79.60 - 80.60 Frac @ 70 TCA QCarbV BX 4" foliated w/ dissem Py 2%. 79.90 - 80.20 4"QCarbV BX @ 80 TCA foliated w/ 2% dissem Py.	155972	79.60	80.60	1.00	.001				
		80.60 - 82.30 As above. 80.70 - 81.10 4"QCarbBx@80TCA offsetted by frac @ subhorizontal (0 deg) TCA. Strongly altered chlorite seritic, hematitic, QCarb veins w/ dissem Py 2-5%.	155973	80.60	82.30	1.70	.001				
		82.30 - 83.30 60% hairline fractures @ 75-80 TCA, QCarbV Specularite stringers.	155974	82.30	83.30	1.00	.001				
		83.30 - 86.00 As above w/ strong foliation @ 60 TCA, strongly altered sericitic.	155975	83.30	86.00	2.70	.001				
		86.00 - 87.50 As above	155976	86.00	87.50	1.50	.001				
		87.50 - 89.00 As above, fine mudstone, sericite alteration	155977	87.50	89.00	1.50	.001				
		89.00 - 92.00 Mudstone w/ greywacke	155978	89.00	92.00	3.00	.001				
		92.00 - 93.00 Mudstone w/ greywacke	155979	92.00	93.00	1.00	.001				
		93.00 - 94.80 Greywacke w/ mudstone	155980	93.00	94.80	1.80	.001				
		94.80 - 95.80 Mudstone	155981	94.80	95.80	1.00	.001				
		95.80 98.30 As above	155982	95.80	98.30	2.50	.001				
			155983	98.30	98.40	0.10	.001			Blank	

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		98.40 - 100.40 Chl slip @ 10 TCA fine mudstone.	155984	98.40	100.40	2.00	.001				
		100.40 - 101.40 Greywacke w/ mudstone.	155985	100.40	101.40	1.00	.001				
		101.40 - 104.00 As above	155986	101.40	104.00	2.60	.001				
		104.00 - 106.00 As above w/ locally fractured 60% breccia hairline QCarb stgs.	155987	104.00	106.00	2.00	.001				
		106.00 - 107.50 Mudstone.	155988	106.00	107.50	1.50	.001				
		107.50 - 108.80 AS above	155989	107.50	108.80	1.30	.001				
		108.80 - 110.80 As above	155990	108.80	110.80	2.00	.001				
		110.80 - 110.80 As above									
		110.80 - 112.80 As above	155991	110.80	112.80	2.00	.001				
		112.80 - 114.00 As above	155992	112.80	114.00	1.20	.001				
		114.00 - 116.00 As above	155993	114.00	116.00	2.00	.001				
		116.00 - 117.00 AS above	155994	116.00	117.00	1.00	.001				
		117.00 - 118.50 As above	155995	117.00	118.50	1.50	.001				
		118.50 - 120.00 Mudstone w/ hematic alteration reddish 30% hairline fractures QCarb stgs	155996	118.50	120.00	1.50	.001				
		120.00 121.00 As above w/frac @ 60 TCA QCarbV.	155997	120.00	121.00	1.00	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
121.00	176.30	TUFF: Calc-Alkaline volcanics, mostly tuffaceous cherty ash type w/ lapilli overall bedding @ 75 to 80 TCA uphole (35 deg @ surface). Highly altered chloritic, sericic, and locally hematitic.									
		121.00 - 122.20 Bleached medium gr' magnetic Tuff.	155998	121.00	122.20	1.20	.001				
		132.00 - 134.00 1.5"QCarbV Bs @ 80 TCA.	155999	132.00	134.00	2.00	.001				
		132.50 - 132.60 1"QCarbV BX @ 80 TCA.									
		134.00 - 135.50 Altered bleached tuff	156000	134.00	134.10	0.10	.001			Blank	
			156260	134.10	135.50	1.40	.001				
		135.50 - 136.50 2.5"QCarbVBx@80 TCA.	156251	135.50	136.50	1.00	.001				
		136.00 - 136.20 2.5"QCarbVBx@80 TCA									
		150.00 - 151.00 1"QCarbV@60 TCA	156252	150.00	151.00	1.00	.001	.001	.001		
		150.65 - 150.75 1"QCarbV@60 TCA.									
		151.00 - 152.50 As above Bx QCarbV Bx @ 60 TCA.	156253	151.00	152.50	1.50	.001				
		151.50 - 152.00 8"QCarbVBx @ 60 TCA									
		152.50 - 156.00 Fra	156254	152.50	156.00	3.50	.001				
		164.00 - 165.00 Frac slp @ 30 TCA	156255	164.00	165.00	1.00	.001				
		165.00 - 166.00 fra slp@30	156256	165.00	166.00	1.00	.001	.001	.001		
		174.00 - 175.00 Frac chloritic slp @ 60 TCA	156257	174.00	175.00	1.00	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		175.00 - 176.30 Chl QCarb slp@60 TCA .02"	156258	175.00	176.30	1.30	.001				
176.30	380.00	BASIC SYENITE: Alkaline intrusive suite. Mafic syenite w/ occasional syenitic porphyric inclusions (xenoliths) mostly rounded. Lamprophyre type petrogenesis,this "mafic syenite" is composed of a orthosic type metastase w/ calcite phenocrysts and chloritic clots w/ clinopyroxene pseudomorphs of medium grain. The unit is occasionally intruded w/ small diabase and syenite porphyry (feldpar pophyry) dikes and Quartz-Carbonate veins. Irregular contact.									
		176.30 - 177.30 0.5"QCarbV@70 TCA.	156259	176.30	177.36	1.06	.001				
		177.00 - 177.05 0.5"QCarbV@70 TCA.									
		218.50 - 219.60 1"ChlQCarbSlp@30 TCA									
		220.50 - 222.00 Altered deformed hematitized, foliated @ 50 TCA w/ QCarbV chl slp. mineralized w/ sulphides.	156261	220.50	222.00	1.50	.001				
		221.60 - 221.70 1"QCarbV Bx chl slp@50 TCA, w/ 10-20% sulphides in foliations.									
		222.00 - 223.20 QCarbV@50	156262	222.00	223.25	1.25	.001				
			156262	222.00	223.50	1.50	.001				
		222.80 - 222.85 0.5"QCarbV@50 TCA.									
		223.20 - 226.00 Check core.	156263	223.25	226.00	2.75	.001				
		226.00 - 228.00 As above	156264	226.00	228.00	2.00	.001				
		228.00 - 230.00 Strong frac chl slip @ core horizontal (0 deg TCA), injecteed w/ Qarb Stgs.	156265	228.00	230.00	2.00	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		230.00 - 232.00 As abobe Chl QCarb Slp@0 TCA	156266	230.00	232.00	2.00	.001	.001	.001		
		232.00 - 233.00 Shr @ 50 fol.	156267	232.00	233.00	1.00	.001				
		233.00 - 234.00 Strong Shear zone w/ QCarb stgs chl slips @ 40 @ 70 TCA.	156268	233.00	234.00	1.00	.001				
		234.00 - 236.00 Check core	156269	234.00	236.00	2.00	.001				
		251.80 - 252.80 QCarbVBx @ 60 TCA, foliated smoky Quartz 70% w/ 5% sulphides. 252.20 - 252.30 1"QV Bx fol@ 60 TCA w/ sulphides 5%.	156270	251.80	252.80	1.00	.001				
		262.60 - 263.60 Strong shear BRK en-echelon infilled w/ Carb V @ 50 TCA.	156271	262.60	263.60	1.00	.001	.001	.001		
		301.00 - 302.00 2" Shear QCarb @ 70 TCA. 301.40 - 301.60 2" Shear QCarb@70 TCA.	156273	301.00	302.00	1.00	.001				
		330.50 - 332.00 Multiple Shears w/ QCarb @ 50 TCA.	156272	330.50	332.00	1.50	.001				
380.00	406.30	TUFF: Calc-alkaline metavolcanic, dark-beige light brown, w/ mostly medium to coarse grained to lapilli in small beddings @ 60 TCA, subrounded fragments, sparselly phenocrysts w/ feldpsrs in chlotitic matrix.									
		400.00 - 403.20 Strong chloritic shear zone foliated @ 50 TCA, anastomosed w/ deformed porphyroclasts occasionally w/QCarb veinlets. 400.00 - 403.20 38" Strong FLT Shear zone @ 50 TCA.	156274	400.00	403.20	3.20	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
406.30	427.70	GREYWACKE: Light green in colour w/ fine to medium grained beddings w/ occasional coarsed grained beddings, subrounded to angular fragments.									
		419.70 - 422.90 LAMPROPHYRE DIKE: In a strong chloritic slip @ 20 TCA, characterized by 20% large calcite phenocrysts in a orthosic metastase and 50% coarsed mafic crystals in chloritic clinopyroxene pseudomorphs.									
427.70	1436.00	BASIC SYENITE: Alkaline intrusive suite mostly of mafic syenitic composed lamprophyre type characterized by 20% large calcite phenocrysts in an orthosic metastase w/ 50% coarse grained mafic minerals of chloritic clinopyroxene pseudomorph.									
		427.70 - 501.00 Calcite phenocrysts Lamprophyre type.									
		442.00 - 445.00 Fresh LDK w/ 30% Carb Veins array overall dip @ 50 TCA w/ occasional 10@ TCA Carb Slips	156275	442.00	445.00	3.00	.001				
		445.00 - 446.00 Small Bleached metasomatosed altered and pyritized Greywacke unit, xenolith.	156276	445.00	446.00	1.00	.001				
		446.00 - 449.50 Fresh LDK, check core.									
		449.50 - 451.00 6" CarbV @ 60 TCA, Py 1-2%									
		449.80 - 450.30 6" CarbV @ 60 Py									
		501.80 - 504.30 Small unit of metasomatized Greywacke unit bleached, altered silicified, and sericitized w/ occasional hematitized beddings.	156277	501.80	504.30	2.50	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Aul Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		604.50 - 605.50	156278	604.50	605.50	1.00	.001				
		FRactured 10% QCarbV Bx									
		605.50 - 606.50	156279	605.50	606.50	1.00	.001				
		1"QCarbV fol ribonned @ 60 TCA,									
		605.80 - 605.70									
		1"QCarbV@60TCA									
		606.50 - 607.50	156280	606.50	607.50	1.00	.001				
		Pink Carb slp@30 TCA.									
		606.60 - 606.70									
		1"CarbV slp @ 30 TCA.									
		607.50 - 610.50	156281	607.50	610.50	3.00	.001				
		2 CarbV@30 0.25" each.									
		610.50 - 612.00	156282	610.50	612.00	1.50	.001	.001	.001		
		FRac Brecciated @ 30 TCA QCarb Bx.									
		612.00 - 613.30	156283	612.00	613.30	1.30	.001				
		FRac@70 Bx 1"	156284	613.30	613.40	0.10	.002			Blank	
			156285	615.00	616.50	1.50	.001				
		615.50 - 616.50									
		QCarb Shr slp @ 40 TCA									
		616.10 - 616.15									
		0.5"QCarbV slp shr @ 40 TCA									
		624.50 - 625.50	156286	624.50	625.50	1.00	.001				
		Bl Fra QCarbV stgs 10% @ 50 to 85 TCA									
		625.50 - 627.00	156287	625.50	627.00	1.50	.001				
		As above									
		627.00 - 630.50	156288	627.00	630.50	3.50	.001				
		Bl 1" QCarbV Bx slp 10% @ 50 TCA									
		630.50 - 631.50	156289	630.50	631.50	1.00	.001				
		Bl frac 30% QCarbV@60 TCA									
		631.50 - 632.50	156290	631.50	632.50	1.00	.001				
		As above w/ 1" QCarbV slp@ 50 TCA									
		631.70 631.80									
		1" QCarbV @ 50 TCA in Bl syenite									

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		632.50 - 635.50 Bl frac @ 85 TCA w/ 10% QCarbV	156291	632.50	635.50	3.00	.001	.001	.001		
		635.50 - 636.50 As above @ 50 TCA.	156292	635.50	636.50	1.00	.001				
		635.75 - 635.85 1" QCarbV@55 TCA Bl fractured 20%									
		636.50 - 637.50 As above 1"QCarbV Bx in Bleached syenite.	156293	636.50	637.50	1.00	.001				
		637.50 - 639.00 Check core	156294	637.50	639.90	2.40	.001				
		654.00 - 687.00 Calcite Phenocrysts Lamprophyre type									
		700.50 - 701.50 2" QCarbV slp Bx @ 50TCA	156295	700.50	701.50	1.00	.001				
		701.00 - 701.15 2" QCarbV @ 50 TCA in Bl syenite.									
		705.00 - 715.00 Intruded by several intermediary dikes, fine grained of light green colour w/ syenite lamprophyry xenoliths,displaying mineral stretching @ 30 TCA, chloritic altered clinipyroxene pseudomorphs and cacite phenocrysts.									
		716.00 - 717.00 1"QCarbV@90 TCA Bx	156296	716.00	717.00	1.00	.001				
		716.20 - 716.30 1" QCarb Bx @ 90 TCA									
		717.00 - 718.50 Check core in bl light green more intermediary type.	156297	717.00	718.50	1.50	.001				
		718.50 - 719.50 0.5 " QCarbV @ 40 TCA	156298	718.50	719.50	1.00	.001				
		771.00 - 772.00 1" QCarbV @ 60 TCA	156299	771.00	772.00	1.00	.002				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		771.70 - 771.75 0.5"QCarv@60 TCA									
		772.00 - 774.50 Stretch lineation @ 40 frac	156300	772.00	774.50	2.50	.001				
		774.50 - 775.50 FRac Brk @ 90 TCA QCarbV	156301	774.50	775.50	1.00	.001				
		775.00 - 775.15 1.5" QCarb Bx @ 90 TCA.									
		775.50 - 776.50 IDK xenoliths	156302	775.50	776.50	1.00	.001				
		776.50 - 778.00 Check core	156303	776.50	778.00	1.50	.001				
		778.00 - 779.00 Bl frac QCarbV @ 40 TCA	156304	778.00	779.00	1.00	.001				
		779.00 - 780.40 Stretched lineation @ 40 TCA	156305	779.00	780.00	1.00	.001				
		780.40 - 782.00 As above w/ 0.25" QCarbV @ 60 TCA	156306	780.40	782.00	1.60	.001				
		782.00 - 783.00 Stretched @ 40 FRac @ 60 QCarbv	156307	782.00	783.00	1.00	.001				
		783.00 - 784.00 Brecciated LDK w/ IDK	156308	783.00	784.00	1.00	.001				
		784.00 - 786.00 As above Bl.	156309	784.00	786.00	2.00	.001				
		825.00 - 826.00 1" QCarb Sear Zone w/ en-echelon dilation jogs.	156310	825.00	826.00	1.00	.001				
		825.30 - 825.40 1" QCarb Shear zone @ 60 TCA w/ en-echelon dilation jogs 1-2mm.									
		830.00 - 831.00 Bleached syenite w/ 6" QCarb Breccia	156311	830.00	831.00	1.00	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		830.50 - 831.80 6" QCarb Bx									
		835.00 - 836.00 Bleached, frac @ 60 TCA QCarbV	156312	835.00	836.00	1.00	.001				
		835.50 - 835.70 2.5" QCarb Bx chl shear @ 50 TCA.									
		856.00 - 857.00 Strong Chl Shear Slp @ 70 TCA	156313	856.00	857.00	1.00	.001				
		856.40 - 856.55 2" Bleached Chloritic Shear w/ QCarb slp @ 70 TCA									
		863.50 - 864.50 Bl Frac@40 QCarbV 0.1"	156314	863.50	864.50	1.00	.001				
		863.75 - 863.77 0.1" QCarbV@40 TCA									
		886.50 - 888.00 Shear Chloritic Slip Fractured core @ 10 TCA.	156315	886.50	888.00	1.50	.001				
		888.00 - 890.00 As above	156316	888.00	890.00	2.00	.001				
		890.00 - 891.50 Bl frac QCarbV@60 TCA	156317	890.00	891.50	1.50	.001				
		890.40 - 890.70 3" ChlQCarbV slp @60 TCA									
		891.50 - 892.50 As above Bl frac QCarbV Shear @ 65 TCA.	156318	891.50	892.50	1.00	.001				
		892.50 - 893.50 As above w/ 1" QCarbV chl slp@70TCA	156319	892.50	893.50	1.00	.001				
		893.00 - 893.10 1" QCarbV Chl slp@ 70 TCA									
		893.50 - 894 50 As above 0.25" QCarbV@70	156320	893.50	894.50	1.00	.002				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		894.50 - 896.00 Bl Hem	156321	894.50	896.00	1.50	.001				
		976.00 - 990.00 Highly Bl frac @ 10 TCA subparallel TCA w/ chl slp									
		986.00 - 990.00 Bl altered frac@10 TCA chl slp	156322	986.00	990.00	4.00	.001				
		993.00 - 994.00 Frac @ 70 TCA QCarbV 0.5"	156323	993.00	994.00	1.00	.001				
		994.00 - 995.00 As above	156324	994.00	995.00	1.00	.001				
		994.40 - 994.60 2" QCarbV Bx@ 70 TCA									
		995.00 - 996.00 Fra QCarbV @ 70 TCA	156325	995.00	996.00	1.00	.001				
		996.00 - 997.00 Check core	156326	996.00	997.00	1.00	.001				
		997.00 - 998.00 Fra QCarbV @ 60 TCA	156327	997.00	998.00	1.00	.001				
		1024.50 - 1026.00 3" QCarbV BX @ 40 TCA	156328	1024.50	1026.00	1.50	.001				
		1025.00 - 1025.20 3" QCarbV Bx @ 40 TCA									
		1180.00 - 1181.00 Bl FRac Bx QCarbV @ 30 TCA Chl slp.	156329	1180.00	1181.00	1.00	.001				
		1211.00 - 1213.50 Bl Foliated frac QCarb Stgs 40%, QCarbV @70	156330	1211.00	1213.50	2.50	.001				
		1213.50 - 1216.00 As above	156331	1213.50	1216.00	2.50	.001				
			156332	1216.00	1216.10	0.10	.006	0.006	0.006	Blank	
		1216.10 - 1217.50 Frac 20% QCarbV@70 TCA	156333	1216.10	1217.50	1.40	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		1226.00 - 1227.00 QCarb Slp Brx @ 70TCA @ 10 TCA	156334	1226.00	1227.00	1.00	.001				
		1227.00 - 1228.00 Check core	156335	1227.00	1228.00	1.00	.001				
		1228.00 - 1229.00 0.25" QCarb Slp@ 20 chl shear	156336	1228.00	1229.00	1.00	.001				
		1239.00 - 1241.00 Frac @ 30 QCarbV Brx Shear zone en echelon @ 10 TCA.	156337	1239.00	1241.00	2.00	.001				
		1244.50 - 1245.50 1" Chl slp QCarbV@60 TCA	156338	1244.50	1245.50	1.00	.001				
		1282.00 - 1283.00 1" QCarbV Bx @ 70 TCA 1282.45 - 1282.55 1" QCarbV Bx Ckl @ 70 TCA.	156339	1282.00	1283.00	1.00	.001				
		1287.50 - 1288.50 Chl slp QCarbV Bx @ 60 TCA 1287.95 - 1288.15 1.5" QCarbV slp@ 60 TCA ribonned. 1301.45 - 1301.60 2" SHR @ 60 TCA W/ QCarbV.	156340	1287.50	1288.50	1.00	.001				
		1301.50 - 1302.50 Bl frac @ 70 QCarbV in shear @ 60 TCA	156341	1301.50	1302.50	1.00	.001				
		1306.50 - 1307.50 Frac QCarbV @ 20 TCA in chl slp 1307.00 - 1307.05 0.5"QCarbVslp@20 TCA	156350	1306.50	1307.50	1.00	.001				
			156351	1307.50	1307.60	0.10	.006	.006	.006	Blank	
		1322.70 - 1324.00 Shr @ 55 TCA w/ 1" QCarbV 1323.15 1323.25 1" QCarbV@ 55 TCA in Chl Shear.	156342	1322.70	1324.00	1.30	.001				

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		1324.00 - 1325.00 Strong Slip @ 40 TCA w/ 1" QCarbV 1324.55 - 1324.65 Strong Chl Slp@ 40 TCA w/ 1" QCarbV	156343	1324.00	1325.00	1.00	.001				
		1325.00 - 1326.00 Check core	156344	1325.00	1326.00	1.00	.001				
		1337.50 - 1339.50 0.5" QCarbV in strong chl slip @ 5 TCA along TCA	156345	1337.50	1339.50	2.00	.001				
		1346.00 - 1347.50 Shear slip QCarbV @ 20 TCA 2"	156346	1346.00	1347.50	1.50	.001				
		1374.50 - 1376.00 0.5" QCarb V slp in strong shear @ 20- TCA. 1375.00 - 1375.05 0.5"QCarv@20Shr	156347	1374.50	1376.00	1.50	.001				
		1376.00 - 1377.00 Check core	156348	1376.00	1377.00	1.00	.001				
		1377.00 - 1378.00 Shear slip QCarbV @ 30 TCA Mineralized w/ 2% Py 1377.50 - 1377.55 0.5" ShrQCarbV @ 30 TCA	156349	1377.00	1378.00	1.00	.001				
		1415.20 - 1416.20 1" QCarbV @ 60 TCA 1415.45 - 1415.55 1" QCarbV@60 TCA	156352	1415.20	1416.20	1.00	.001				
		1424.00 - 1426.00 2.5" QCarbV shr slp @ 40-50 TCA 1424.60 - 1424.85 2.5" QCarbV Shr slp @ 45 TCA	156353	1424.00	1426.00	2.00	.001				
		1436.00 - 1436.00 END OF-HOLE									

From (F)	To (F)	DESCRIPTION	Sample	From (F)	To (F)	Long (F)	Au Oz/Ton	Au1 Oz/Ton	AuChk1 Oz/Ton	AuChk2 Oz/Ton	AuChk3 Oz/Ton
		END OF HOLE									
		Total samples : 142									
		Total footage sampling : 204.06 F									
		S. Carmichael Aos/07									

Swastika Laboratories Ltd

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Geochemical Analysis Certificate

6W-0197-RG1

Company: **KIRKLAND LAKE GOLD INC.**

Date: JAN-31-06

Project:

Attn: M. Sutton

We hereby certify the following Geochemical Analysis of 48 Core samples submitted JAN-24-06 by .

Sample Number	Au PPB	Au Check PPB	Au oz/ton	Au Check oz/ton
156322	2	-	<0.001	-
156323	Nil	-	<0.001	-
156324	Nil	-	<0.001	-
156325	Nil	-	<0.001	-
156326	24	-	<0.001	-
156327	Nil	-	<0.001	-
156328	Nil	-	<0.001	-
156329	Nil	-	<0.001	-
156330	Nil	-	<0.001	-
156331	Nil	-	<0.001	-
156332	206	213	0.006	0.006
156333	Nil	-	<0.001	-
156334	Nil	-	<0.001	-
156335	Nil	-	<0.001	-
156336	Nil	-	<0.001	-
156337	Nil	-	<0.001	-
156338	Nil	-	<0.001	-
156339	Nil	-	<0.001	-
156340	Nil	-	<0.001	-
156341	Nil	-	<0.001	-
156342	Nil	Nil	<0.001	<0.001
156343	Nil	-	<0.001	-
156344	Nil	-	<0.001	-
156345	Nil	-	<0.001	-
156346	Nil	-	<0.001	-
156347	Nil	-	<0.001	-
156348	Nil	-	<0.001	-
156349	Nil	-	<0.001	-
156350	Nil	-	<0.001	-
156351	213	209	0.006	0.006

(30)

Certified by Denis Chortyk

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Geochemical Analysis Certificate

6W-0197-RG1

Company: **KIRKLAND LAKE GOLD INC.** Date: JAN-31-06

Project:

Attn: M. Sutton

We hereby certify the following Geochemical Analysis of 48 Core samples submitted JAN-24-06 by .

Sample Number	Au PPB	Au Check PPB	Au oz/ton	Au Check oz/ton
156352	Nil	-	<0.001	-
156353	Nil	-	<0.001	-
165972	79	75	0.002	0.002
165973	Nil	-	<0.001	-
165974	Nil	-	<0.001	-
165975	675	645	0.020	0.019
165976	315	-	0.009	-
165977	634	699	0.018	0.020
165978	27	-	<0.001	-
165979	158	-	0.005	-
165980	113	93	0.003	0.003
165981	93	-	0.003	-
165982	41	-	0.001	-
165983	45	-	0.001	-
165984	34	-	0.001	-
165985	96	96	0.003	0.003
165986	69	-	0.002	-
165987	31	-	<0.001	-
Blank	Nil	-	<0.001	-
STD OxJ36	2448	-	0.071	-

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Geochemical Analysis Certificate

6W-0171-RG1

Company: **KIRKLAND LAKE GOLD INC**

Date: JAN-26-06

Project:

Attn: M. Sutton

We hereby certify the following Geochemical Analysis of 58 core samples submitted JAN-20-06 by .

Sample Number	Au PPB	Au Check PPB	Au 2nd PPB	Au 2ndCk PPB	Au oz/ton	Au Check oz/ton	Au 2nd oz/ton	Au 2ndCk oz/ton
165875	3117	3411	-	-	0.091	0.099	-	-
165876	1666	-	-	-	0.049	-	-	-
165877	1539	-	-	-	0.045	-	-	-
165878	1104	-	-	-	0.032	-	-	-
165879	854	-	-	-	0.025	-	-	-
165880	2475	-	-	-	0.072	-	-	-
165881	1889	1786	-	-	0.055	0.052	-	-
156301	38	-	-	-	0.001	-	-	-
156302	27	-	-	-	<0.001	-	-	-
156303	10	-	-	-	<0.001	-	-	-
156304	2	-	-	-	<0.001	-	-	-
156305	Nil	-	-	-	<0.001	-	-	-
156306	3	-	-	-	<0.001	-	-	-
156307	Nil	-	-	-	<0.001	-	-	-
156308	Nil	-	-	-	<0.001	-	-	-
156309	Nil	-	-	-	<0.001	-	-	-
156310	Nil	-	-	-	<0.001	-	-	-
156311	Nil	-	-	-	<0.001	-	-	-
156312	Nil	-	-	-	<0.001	-	-	-
156313	2	-	-	-	<0.001	-	-	-
156314	Nil	-	-	-	<0.001	-	-	-
156315	Nil	-	-	-	<0.001	-	-	-
156316	Nil	-	-	-	<0.001	-	-	-
156317	Nil	-	-	-	<0.001	-	-	-
156318	Nil	-	-	-	<0.001	-	-	-
156319	Nil	-	-	-	<0.001	-	-	-
156320	82	-	-	-	0.002	-	-	-
156321	Nil	-	-	-	<0.001	-	-	-

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Assay Certificate

6W-0150-RA1

Company: **KIRKLAND LAKE GOLD INC.**

Date: JAN-20-06

Project:

Attn: M. Sutton

We hereby certify the following Assay of 54 Core samples submitted JAN-18-06 by .

Sample Number	Au PPB	Au Check PPB	Au oz/ton	Au Check oz/ton
156278	3	-	<0.001	-
156279	Nil	-	<0.001	-
156280	7	-	<0.001	-
156281	34	-	0.001	-
156282	24	17	<0.001	<0.001
156283	48	-	0.001	-
156284	82	-	0.002	-
156285	7	-	<0.001	-
156286	Nil	-	<0.001	-
156287	Nil	-	<0.001	-
156288	38	-	0.001	-
156289	Nil	-	<0.001	-
156290	Nil	-	<0.001	-
156291	Nil	Nil	<0.001	<0.001
156292	Nil	-	<0.001	-
156293	10	-	<0.001	-
156294	17	-	<0.001	-
156295	Nil	-	<0.001	-
156296	Nil	-	<0.001	-
156297	Nil	-	<0.001	-
156298	34	-	0.001	-
156299	58	-	0.002	-
156300	48	-	0.001	-
165786	96	-	0.003	-
165787	Nil	-	<0.001	-
165788	7	-	<0.001	-
165789	79	-	0.002	-
165790	7	-	<0.001	-
165791	96	103	0.003	0.003
165792	Nil	-	<0.001	-

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Geochemical Analysis Certificate

6W-0135-RG1

Company: **KIRKLAND LAKE GOLD INC.**

Date: JAN-18-06

Project:

Attn: M. Sutton

We hereby certify the following Geochemical Analysis of 27 Core samples submitted JAN-17-06 by .

Sample Number	Au PPB	Au Check PPB	Au oz/ton	Au Check oz/ton
156251	Nil	-	<0.001	-
156252	Nil	Nil	<0.001	<0.001
156253	7	-	<0.001	-
156254	Nil	-	<0.001	-
156255	Nil	-	<0.001	-
156256	Nil	Nil	<0.001	<0.001
156257	Nil	-	<0.001	-
156258	Nil	-	<0.001	-
156259	7	-	<0.001	-
156260	Nil	-	<0.001	-
156261	Nil	-	<0.001	-
156262	Nil	-	<0.001	-
156263	2	-	<0.001	-
156264	Nil	-	<0.001	-
156265	Nil	-	<0.001	-
156266	2	Nil	<0.001	<0.001
156267	Nil	-	<0.001	-
156268	Nil	-	<0.001	-
156269	Nil	-	<0.001	-
156270	3	-	<0.001	-
156271	7	3	<0.001	<0.001
156272	Nil	-	<0.001	-
156273	Nil	-	<0.001	-
156274	10	-	<0.001	-
156275	Nil	-	<0.001	-
156276	Nil	-	<0.001	-
156277	34	-	<0.001	-
Blank	Nil	-	<0.001	-
STD OxJ36	2353	-	0.069	-

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Geochemical Analysis Certificate

6W-0104-RG1

Company: **KIRKLAND LAKE GOLD INC.**

Date: JAN-18-06

Project:

Attn: M. Sutton

We hereby certify the following Geochemical Analysis of 80 Core samples submitted JAN-13-06 by .

Sample Number	Au PPB	Au Check PPB	Au oz/ton	Au Check oz/ton
155971	Nil	-	<0.001	-
155972	Nil	-	<0.001	-
155973	Nil	-	<0.001	-
155974	Nil	-	<0.001	-
155975	Nil	-	<0.001	-
155976	2	-	<0.001	-
155977	Nil	-	<0.001	-
155978	24	-	<0.001	-
155979	Nil	-	<0.001	-
155980	7	-	<0.001	-
155981	Nil	-	<0.001	-
155982	Nil	-	<0.001	-
155983	Nil	Nil	<0.001	<0.001
155984	Nil	-	<0.001	-
155985	Nil	-	<0.001	-
155986	Nil	-	<0.001	-
155987	Nil	-	<0.001	-
155988	2	-	<0.001	-
155989	Nil	-	<0.001	-
155990	Nil	-	<0.001	-
155991	7	-	<0.001	-
155992	Nil	-	<0.001	-
155993	2	-	<0.001	-
155994	3	-	<0.001	-
155995	2	-	<0.001	-
155996	Nil	-	<0.001	-
155997	10	-	<0.001	-
155998	Nil	-	<0.001	-
155999	7	-	<0.001	-
156000	14	-	<0.001	-

GJ-45-03

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Certified by Denis Chrunik

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Geochemical Analysis Certificate

6W-0092-RG1

Company: **KIRKALND LAKE GOLD INC**

Date: JAN-17-06

Project:

Attn: M.Sutton

We hereby certify the following Geochemical Analysis of 36 Core samples submitted JAN-12-06 by .

Sample Number	Au PPB	Au Check PPB	Au oz/ton	Au Check oz/ton
155905	7	10	<0.001	<0.001
155906	Nil	-	<0.001	-
155907	3	-	<0.001	-
155908	Nil	-	<0.001	-
155909	Nil	-	<0.001	-
155910	31	-	<0.001	-
155911	7	-	<0.001	-
155912	Nil	-	<0.001	-
155913	Nil	-	<0.001	-
155914	Nil	-	<0.001	-
155915	Nil	-	<0.001	-
155916	21	-	<0.001	-
155917	2	-	<0.001	-
155918	Nil	-	<0.001	-
155919	31	-	<0.001	-
155920	27	-	<0.001	-
155921	Nil	-	<0.001	-
155922	Nil	-	<0.001	-
155923	Nil	-	<0.001	-
155924	Nil	-	<0.001	-
155925	2	Nil	<0.001	<0.001
155926	7	-	<0.001	-
155927	Nil	-	<0.001	-
155928	Nil	-	<0.001	-
155929	Nil	-	<0.001	-
155930	3	-	<0.001	-
155931	24	-	<0.001	-
155932	7	7	<0.001	<0.001
155933	Nil	-	<0.001	-
155934	Nil	-	<0.001	-

(65-05-02)

Certified by Denis Christy

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Geochemical Analysis Certificate

6W-0092-RG1

Company: **KIRKALND LAKE GOLD INC**

Date: JAN-17-06

Project:

Attn: M.Sutton

We hereby certify the following Geochemical Analysis of 36 Core samples submitted JAN-12-06 by .

Sample Number	Au PPB	Au Check PPB	Au oz/ton	Au Check oz/ton
155935	69	-	0.002	-
155936	Nil	-	<0.001	-
155937	Nil	-	<0.001	-
155938	Nil	-	<0.001	-
155939	10	-	<0.001	-
155940	3	-	<0.001	-

Certified by Denis Charette

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Geochemical Analysis Certificate

6W-0091-RG1

Company: **KIRKLAND LAKE GOLD INC.**

Date: JAN-16-06

Project:

Attn: M. Sutton

We hereby certify the following Geochemical Analysis of 54 Core samples submitted JAN-12-06 by .

Sample Number	Au PPB	Au Check PPB	Au oz/ton	Au Check oz/ton
155851	82	99	0.002	0.002
155852	Nil	-	<0.001	-
155853	7	-	<0.001	-
155854	Nil	-	<0.001	-
155855	Nil	-	<0.001	-
155856	10	-	<0.001	-
155857	10	-	<0.001	-
155858	264	-	0.008	-
155859	Nil	-	<0.001	-
155860	Nil	Nil	<0.001	<0.001
155861	Nil	-	<0.001	-
155862	Nil	-	<0.001	-
155863	Nil	-	<0.001	-
155864	Nil	-	<0.001	-
155865	Nil	-	<0.001	-
155866	Nil	-	<0.001	-
155867	Nil	-	<0.001	-
155868	Nil	Nil	<0.001	<0.001
155869	Nil	-	<0.001	-
155870	31	-	<0.001	-
155871	Nil	-	<0.001	-
155872	Nil	-	<0.001	-
155873	27	-	<0.001	-
155874	38	-	0.001	-
155875	31	-	<0.001	-
155876	165	-	0.005	-
155877	Nil	-	<0.001	-
155878	Nil	-	<0.001	-
155879	Nil	-	<0.001	-
155880	21	-	<0.001	-

Certified by Denis Charette

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Geochemical Analysis Certificate

6W-0091-RG1

Company: **KIRKLAND LAKE GOLD INC.**

Date: JAN-16-06

Project:

Attn: M. Sutton

We hereby certify the following Geochemical Analysis of 54 Core samples submitted JAN-12-06 by .

Sample Number	Au PPB	Au Check PPB	Au oz/ton	Au Check oz/ton
155881	14	-	<0.001	-
155882	24	-	<0.001	-
155883	21	-	<0.001	-
155884	Nil	-	<0.001	-
155885	Nil	-	<0.001	-
155886	2	-	<0.001	-
155887	Nil	-	<0.001	-
155888	Nil	-	<0.001	-
155889	Nil	-	<0.001	-
155890	Nil	-	<0.001	-
155891	Nil	Nil	<0.001	<0.001
155892	14	-	<0.001	-
155893	Nil	-	<0.001	-
155894	Nil	-	<0.001	-
155895	Nil	-	<0.001	-
155896	21	-	<0.001	-
155897	Nil	-	<0.001	-
155898	Nil	-	<0.001	-
155899	Nil	-	<0.001	-
155900	Nil	-	<0.001	-
155901	55	-	0.002	-
155902	Nil	-	<0.001	-
155903	261	110	0.008	0.003
155904	Nil	-	<0.001	-
Blank	Nil	-	<0.001	-
STD OxJ36	2462	-	0.072	-

Certified by Denis Charter

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Geochemical Analysis Certificate

6W-0076-RG1

Company: **KIRKLAND LAKE GOLD INC.**

Date: JAN-13-06

Project:

Attn: M. Sutton

We hereby certify the following Geochemical Analysis of 53 Core samples submitted JAN-11-06 by .

Sample Number	Au PPB	Au Check PPB	Au oz/ton	Au Check oz/ton
165555	Nil	-	<0.001	-
155824	Nil	-	<0.001	-
155825	Nil	-	<0.001	-
155826	Nil	-	<0.001	-
155827	Nil	-	<0.001	-
155828	Nil	-	<0.001	-
155829	21	17	<0.001	<0.001
155830	Nil	-	<0.001	-
155831	2	-	<0.001	-
155832	Nil	-	<0.001	-
155833	Nil	-	<0.001	-
155834	Nil	-	<0.001	-
155835	Nil	-	<0.001	-
155836	2	-	<0.001	-
155837	Nil	-	<0.001	-
155838	Nil	-	<0.001	-
155839	72	-	0.002	-
155840	Nil	-	<0.001	-
155841	Nil	-	<0.001	-
155842	Nil	-	<0.001	-
155843	31	34	<0.001	<0.001
155844	Nil	-	<0.001	-
155845	243	-	0.007	-
155846	7	-	<0.001	-
155847	Nil	-	<0.001	-
155848	Nil	-	<0.001	-
155849	Nil	-	<0.001	-
155850	Nil	Nil	<0.001	<0.001
168102	Nil	-	<0.001	-
168103	Nil	-	<0.001	-

Certified by J. Rennie

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Geochemical Analysis Certificate

6W-0055-RG1

Company: **KIRKLAND LAKE GOLD INC.**

Date: JAN-12-06

Project:

Attn: M. Sutton

We hereby certify the following Geochemical Analysis of 82 Core samples submitted JAN-10-06 by .

Sample Number	Au PPB	Au Check PPB	Au oz/ton	Au Check oz/ton
155791	110	69	0.003	0.002
155792	10	-	<0.001	-
155793	7	-	<0.001	-
155794	10	-	<0.001	-
155795	14	-	<0.001	-
155796	2	-	<0.001	-
155797	10	-	<0.001	-
155798	Nil	-	<0.001	-
155799	Nil	-	<0.001	-
155800	10	-	<0.001	-
155801	21	-	<0.001	-
155802	7	-	<0.001	-
155803	Nil	-	<0.001	-
155804	7	-	<0.001	-
155805	27	-	<0.001	-
155806	14	-	<0.001	-
155807	3	-	<0.001	-
155808	27	-	<0.001	-
155809	Nil	-	<0.001	-
155810	Nil	-	<0.001	-
155811	31	-	<0.001	-
155812	10	-	<0.001	-
155813	2	-	<0.001	-
155814	Nil	-	<0.001	-
155815	34	41	0.001	0.001
155816	Nil	-	<0.001	-
155817	31	-	<0.001	-
155818	14	-	<0.001	-
155819	2	-	<0.001	-
155820	7	-	<0.001	-

6W-0055-01

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Assaying - Consulting - Representation

Geochemical Analysis Certificate

6W-0055-RG1

Company: **KIRKLAND LAKE GOLD INC.**

Date: JAN-12-06

Project:

Attn: M. Sutton

We hereby certify the following Geochemical Analysis of 82 Core samples submitted JAN-10-06 by .

Sample Number	Au PPB	Au Check PPB	Au oz/ton	Au Check oz/ton
155821	Nil	-	<0.001	-
155822	Nil	-	<0.001	-
155823	Nil	-	<0.001	-
165459	27	-	<0.001	-
165460	24	-	<0.001	-
165461	Nil	-	<0.001	-
165462	10	-	<0.001	-
165463	Nil	-	<0.001	-
165464	21	-	<0.001	-
165465	182	130	0.005	0.004
165466	Nil	-	<0.001	-
165467	21	-	<0.001	-
165468	206	-	0.006	-
165469	2	-	<0.001	-
165470	27	-	<0.001	-
165471	Nil	-	<0.001	-
165472	435	511	0.013	0.015
165473	339	-	0.010	-
165474	27	-	<0.001	-
165475	10	-	<0.001	-
165476	58	-	0.002	-
165477	Nil	-	<0.001	-
165478	Nil	-	<0.001	-
165479	21	-	<0.001	-
165480	Nil	-	<0.001	-
165481	Nil	-	<0.001	-
165482	638	689	0.019	0.020
165483	24	-	<0.001	-
165484	Nil	-	<0.001	-
165485	161	-	0.005	-

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Geochemical Analysis Certificate

6W-0035-RG1

Company: **KIRKLAND LAKE GOLD INC.**

Date: JAN-11-06

Project:

Attn: M. Sutton

We hereby certify the following Geochemical Analysis of 74 Core samples submitted JAN-09-06 by .

Sample Number	Au PPB	Au Check PPB	Au oz/ton	Au Check oz/ton
155557	86	-	0.003	-
155718	7	-	<0.001	-
155719	10	-	<0.001	-
155720	14	-	<0.001	-
155721	2	-	<0.001	-
155722	75	89	0.002	0.003
155723	Nil	-	<0.001	-
155724	58	-	0.002	-
155725	41	-	0.001	-
155726	17	-	<0.001	-
155727	Nil	Nil	<0.001	<0.001
155728	Nil	-	<0.001	-
155729	38	-	0.001	-
155730	62	-	0.002	-
155731	24	-	<0.001	-
155732	17	-	<0.001	-
155733	7	-	<0.001	-
155734	38	-	0.001	-
155735	14	-	<0.001	-
155736	2	-	<0.001	-
155737	Nil	-	<0.001	-
155738	Nil	Nil	<0.001	<0.001
155739	10	-	<0.001	-
155740	14	-	<0.001	-
155741	Nil	-	<0.001	-
155742	7	-	<0.001	-
155743	7	-	<0.001	-
155744	Nil	-	<0.001	-
155745	3	-	<0.001	-
155746	Nil	-	<0.001	-

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6W-0035-RG1

Company: **KIRKLAND LAKE GOLD INC.**

Date: JAN-11-06

Project:

Attn: M. Sutton

We hereby certify the following Geochemical Analysis of 74 Core samples submitted JAN-09-06 by .

Sample Number	Au PPB	Au Check PPB	Au oz/ton	Au Check oz/ton
155747	Nil	-	<0.001	-
155748	Nil	-	<0.001	-
155749	89	96	0.003	0.003
155750	45	-	0.001	-
155751	Nil	-	<0.001	-
155752	14	-	<0.001	-
155753	Nil	-	<0.001	-
155754	Nil	-	<0.001	-
155755	Nil	-	<0.001	-
155756	Nil	-	<0.001	-
155757	Nil	-	<0.001	-
155758	Nil	-	<0.001	-
155759	Nil	-	<0.001	-
155760	Nil	-	<0.001	-
155761	Nil	-	<0.001	-
155762	58	51	0.002	0.001
155763	24	-	<0.001	-
155764	3	-	<0.001	-
155765	Nil	-	<0.001	-
155766	Nil	-	<0.001	-
155767	3	-	<0.001	-
155768	3	-	<0.001	-
155769	Nil	-	<0.001	-
155770	Nil	-	<0.001	-
155771	103	-	0.003	-
155772	Nil	-	<0.001	-
155773	Nil	-	<0.001	-
155774	Nil	-	<0.001	-
155775	Nil	Nil	<0.001	<0.001
155776	Nil	-	<0.001	-

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6W-0035-RG1

Company: **KIRKLAND LAKE GOLD INC.**

Date: JAN-11-06

Project:

Attn: M. Sutton

We hereby certify the following Geochemical Analysis of 74 Core samples submitted JAN-09-06 by .

Sample Number	Au PPB	Au Check PPB	Au oz/ton	Au Check oz/ton
155777	Nil	-	<0.001	-
155778	Nil	-	<0.001	-
155779	89	69	0.003	0.002
155780	7	-	<0.001	-
155781	79	-	0.002	-
155782	Nil	-	<0.001	-
155783	Nil	-	<0.001	-
155784	Nil	-	<0.001	-
155785	7	-	<0.001	-
155786	3	-	<0.001	-
155787	14	-	<0.001	-
155788	Nil	-	<0.001	-
155789	Nil	-	<0.001	-
155790	Nil	-	<0.001	-
Blank	Nil	-	<0.001	-
STD OxJ36	2284	-	0.067	-

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6W-0025-RG1

Company: **KIRKLAND LAKE GOLD INC**

Date: JAN-11-06

Project:

Attn: M. Sutton

We hereby certify the following Geochemical Analysis of 84 Core samples submitted JAN-05-06 by .

Sample Number	Au PPB	Au Check PPB	Au oz/ton	Au Check oz/ton
155701	Nil	-	<0.001	-
155702	113	-	0.003	-
155703	202	202	0.006	0.006
155704	Nil	-	<0.001	-
155705	41	-	0.001	-
155706	24	-	<0.001	-
155707	141	-	0.004	-
155708	69	-	0.002	-
155709	34	-	0.001	-
155710	79	-	0.002	-
155711	Nil	-	<0.001	-
155712	3	-	<0.001	-
155713	10	-	<0.001	-
155714	Nil	-	<0.001	-
155715	Nil	-	<0.001	-
155716	Nil	-	<0.001	-
155717	3	-	<0.001	-
165336	343	343	0.010	0.010
165337	7	-	<0.001	-
165338	10	-	<0.001	-
165339	202	-	0.006	-
165340	86	-	0.003	-
165341	41	-	0.001	-
165342	45	-	0.001	-
165343	Nil	-	<0.001	-
165344	86	-	0.003	-
165345	10	-	<0.001	-
165346	69	-	0.002	-
165347	86	-	0.003	-
165348	62	-	0.002	-

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