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2.54934

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Claim L1239348
The "1"
Eby Township
NTS - 42 A/1
80°10'W 48°04'N
7247915 CANADA INC

Submitted April 2014
Prepared by : Eric Marion

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Kirkland Lake Resident Geologists District

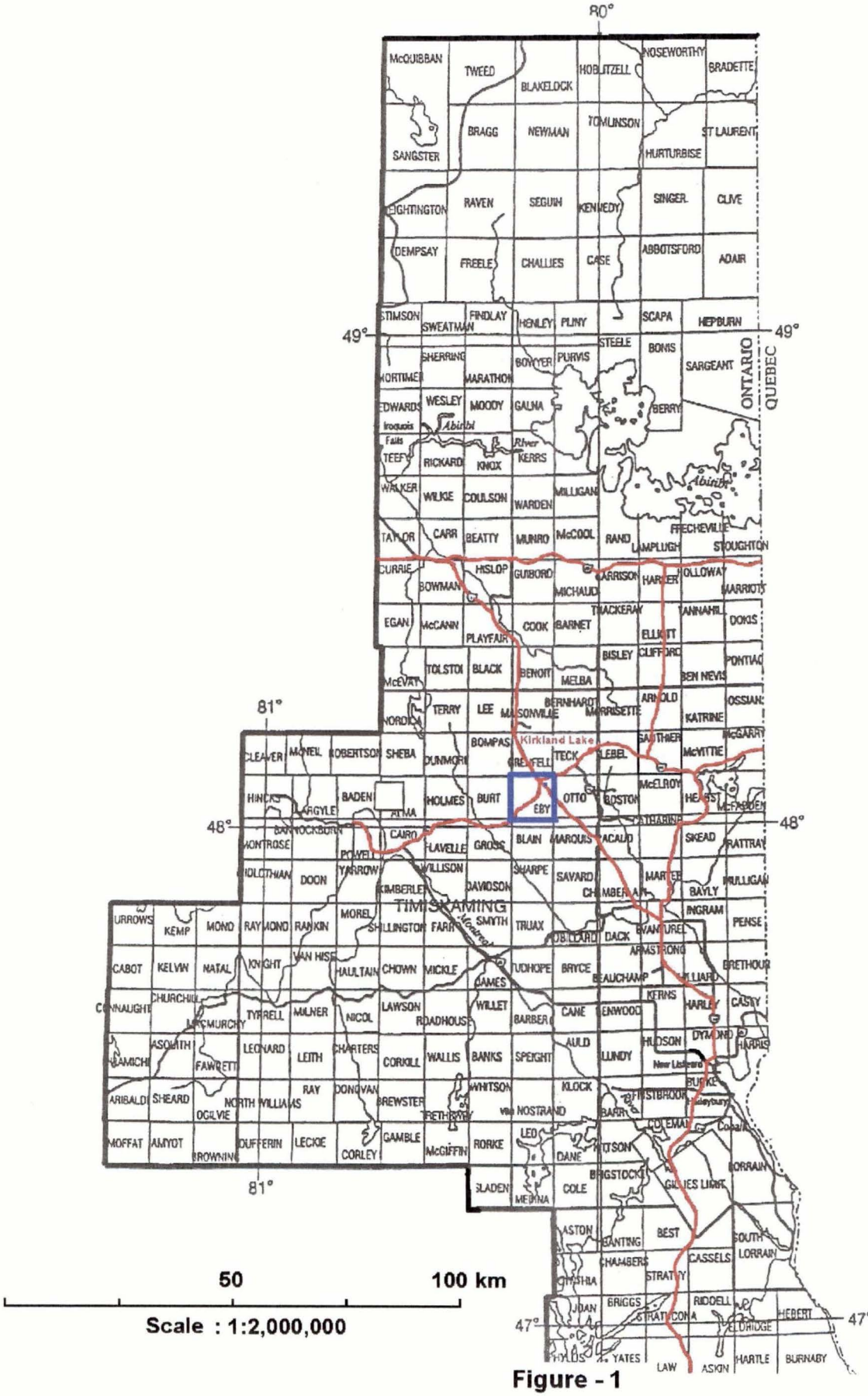


Figure - 1

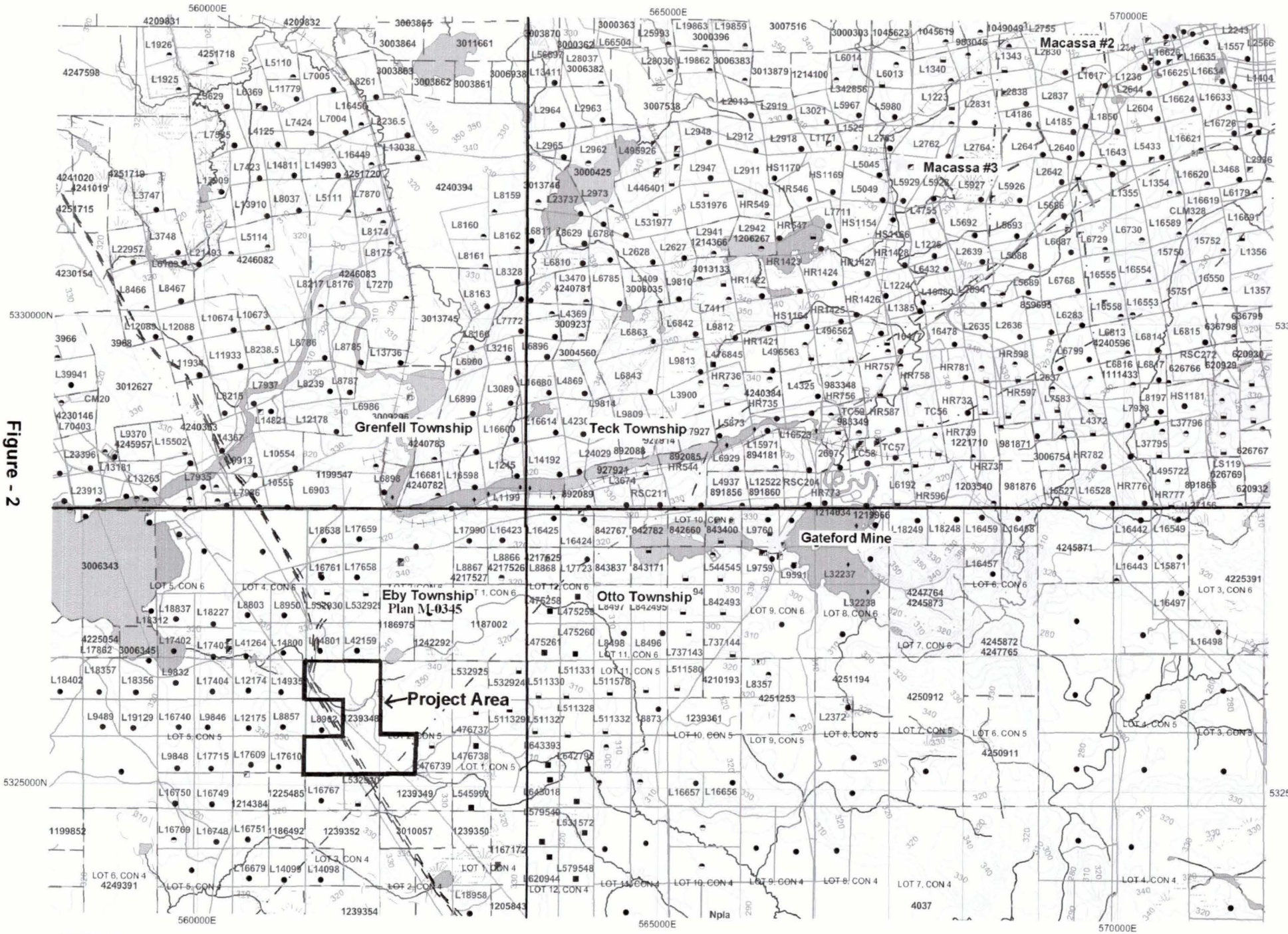

560000E
565000E
570000E
5330000N
5325000N
Grenfell Township
Teck Township
Eby Township
Plan M-0345
Otto Township
Gateford Mine
Macassa #2
Macassa #3
Project Area
UTM Zone 17
5000m grid

Figure - 2

PROPERTY LOCATION

The claim is located in the Larder Lake mining division approximately 12 kilometers south-west of the town of Kirkland Lake. The group sits midway in the eastern end of Eby Township with Highway 11 passing through the claims. This is in the Kirkland Lake Resident Geologists District and can be found on NTS-42 A/1 with the geographic center being at approximately 80°10'W and 48°04'N.

ACCESS

Heading south on Hwy.#11 from the intersection of Hwy.#66 and trans-Canada Hwy.#11 at Kenogami for 1.8 kilometers will bring you to the approximate geographic center of the claim. Many hunting trails, transmission lines and a gas pipeline give improved access to much of the claim area.

CLAIMS

This claim is a staked mining claim block totalling 6 claim units in Temiskaming District, in the subdivided Township of Eby, recorded on Plan M-0345.The claims and descriptions are as follows:

CL#1239348--Lot 3, Con.5 N1/2(noSW1/4) +Lot 3 Con.5 N1/2 of S1/2
+Lot 2, Con.5 NW1/4 of S1/2 - 6 units

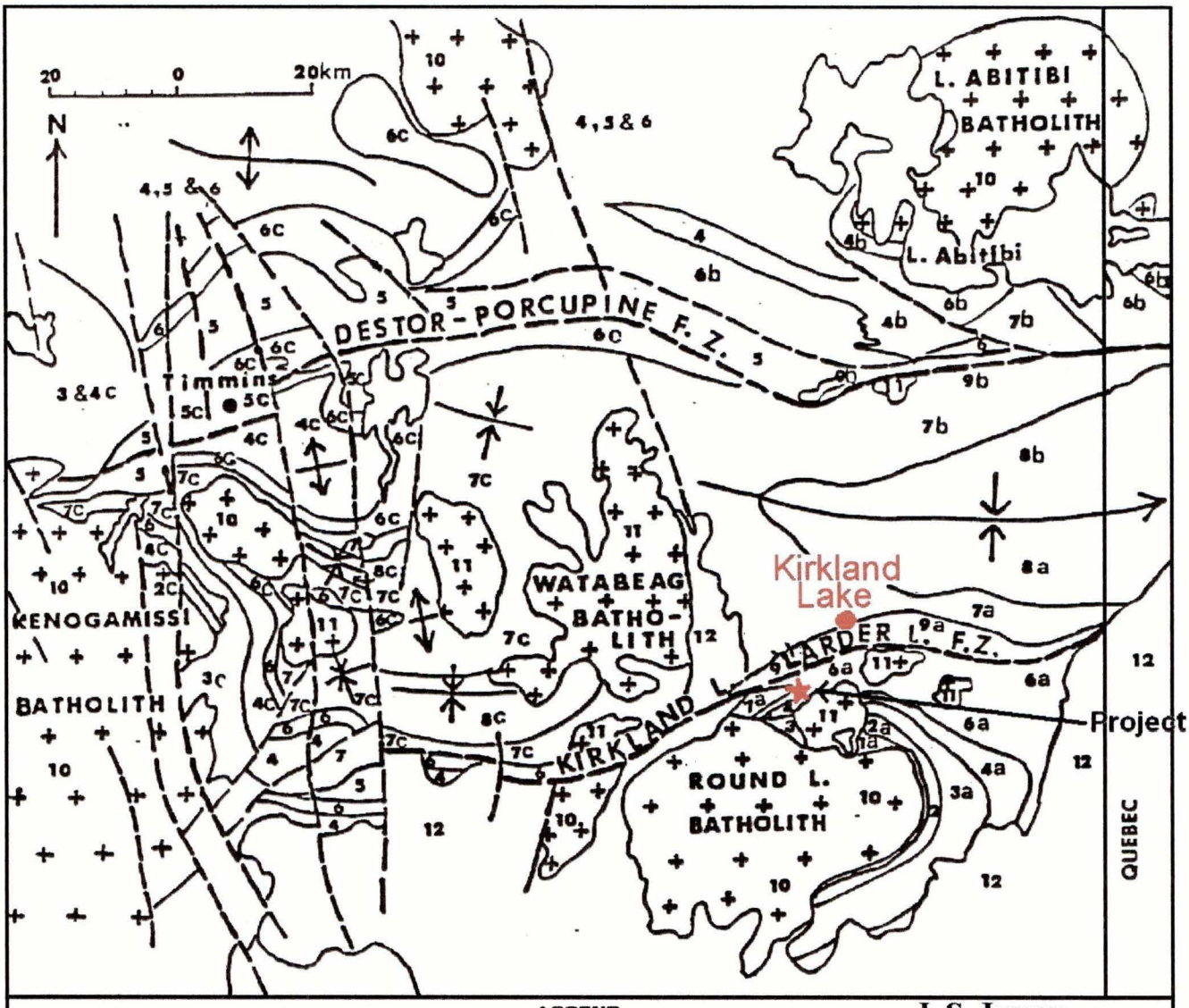
GENERAL GEOLOGY

This claim lays within the Abitibi Greenstone Belt, a region of predominantly volcanic rocks and related interflow sediments at the south central region of the Superior Province.Several eras of intrusion and deformation have affected most of the lithologies present. Major structural deformation zones, (locally the Larder-Cadillac Deformation Zone or LCDZ), parallel each other west to east across the belt and have acted as a control on gold deposition. The Abitibi Belt is host to many large gold and base metal deposits on both sides of the Ontario-Quebec border along these structural trends and has an exploration history going back well into the 1800's. A band of altered mainly fluvial sediments of Temiskaming age, folded and upturned to a near vertical position, coincide with the main structural trend of the LCDZ less than 1200 meters to the north of the claim group. This claim lays amongst the splay faulys of LCDZ. The round Lake batholith, a large Archaen aged granitic intrusive occurs about 6 kilometers to the south-west. The south east of the claim group is the "Otto Stock", an almost circular, somewhat zoned mafic(sanukitoid?) intrusive of some 10 kilometer diameter.Thin bands of clastic sediments and iron formation belonging to the older Skead group trend east-west through the map area and wrap around the Otto Stock.To the south-west of the claim group, a roughly 10 kilometer wide north-south finger of Huronian aged sediments filling a paleo depression of probable structural origin overlie the volcanics. Field work by the OGS has shown LCDZ strain and faulting affecting these much younger overlying sediments.

The Temiskaming Rift is a regional graben feature strinking at about 330° across this part of Ontario.This young rift system has a definite control association with diamond bearing intrusives such as kimberlites. Several NNW-SSE trending fault features passing through the area have been identified as probable Temiskaming Rift associated features.

The Kirkland Lake Break is located about 7500 meters north east of this claim., laying on the east side of the Amikougami Fault, a late off-setting cross fault. The Macassa Mine, the last operating producer of the historic Kirkland Lake camp which has produced in excess of 28 million ounces of gold, has its #3 shaft at this area. Although there have been several postulated correlations of the economic

General Geology of the Kirkland Lake Area



LEGEND L.S. Jensen

Proterozoic

Keeweenawan diabase (not shown)

12 Cobalt Group

Archean

Matachewan diabase (not shown)

Granitic rocks

11 Granodiorite, monzonite, quartz monzonite, syenite

10 Massive to gneissic quartz diorite, tonalite, trondhjemite

Upper Supergroup

9 9a* Timiskaming Group, 9b** Destor-Porcupine Complex

8 8a, 8n, Blake River Group, 8c*** Blake River (Upper Fm., Tisdale Group)

7 7a, 7b, Kinojevis Group, 7c Kinojevis Group, (Middle Fm., Tisdale Group)

6 6a Larder Lake Group, 6b Stoughton Roquemaure Group, 6c Lower Fm., Tisdale Group

5 5c Porcupine Group

Lower Supergroups

4 4a Skead Group, 4b Hunter Mine Group, 4c Upper Fm., Deloro Group

3 3a Catherine Group, 3c Middle Fm. Deloro Group

2 2a Wabewewe Group, 2c Lower Fm. Deloro Group

1 1a Pacaud tuffs****

*a refers to Kirkland Lake Area, south limb of synclinorium (Jensen 1978c, 1979).
**b refers to Kirkland Lake Area, north limb of synclinorium (Jensen 1976, 1978b).
***c refers to Timmins Area (Pyke, 1980).
**** (Goodwin, 1965).

Figure - 3

faults to fault or vein features to the west of this north south fault, no economically encouraging "ore blocks" have been defined to the west of the Amikougami Fault. Available geologic reports and publications appear to have differing information and estimation of the amout of and direction of off-set by the Amikougami Fault. The east-north east trending Kirkland Lake Break is mapped as merging with the Larder Cadillac break about 1400 meters directly north of L1239348.

CLAIM/LOCAL GEOLOGY

O.D.M. Map M-2239 of Eby Twp. shows the northern three claim units to be underlain by mafic intrusive rocks of gabbroic to dioritic composition. The southern three claims are mapped as mafic volcanic basalt/andesite agglomerate-tuff. An exposure of syenitic rock occurs in the south part of the claim mapped west of Hwy 11. Due east of the mapped exposure, a variably hematized mafic syenitic rock can be observed in the rock cut on the east side of the highway which is likely the same dike.

In the rock cut on the west side of Hwy 11 at a location approximately 450 meters south of the natutal gas pipeline, road upgrading in the last decade exposed a quartz carbonate vein from 10 to 20 cm wide with disseminated sulphides and flecks of fuchite, trending parallel to the highway. Limited work by various parties including the author have yielded up to 400 ppb gold from vein and altered pyritic wallrock. Most of this vein exposure occurs on a patented claim across the the road allowance that was opened up during blasting performed by road widening operations in about 1998. No recorded work for this vein area by the owners of the claim exists. No known drilling has occured on this structure.

Several occurances of gold are located in the immediate area around the claim.Most notably of the gold occurances in the area is the workings of the Gateford Mine about 5 kilometers east north east of this claim, on the west shore of Otto Lake. These holdings include the workings of the Swastika Mine which is the site of the first discovery west of Larder Lake in 1906, three years before the major discoveries 4½ north east in what was to become the historic Kirkland Lake gold camp. The property is underlain by volcanic rock cut by syenite dikes. Gold occurs in very rich thin flat laying quartz veins associated with galena and molybedenite. Initial production at the Swastika Mine began in 1911 and was sporadic unill about 1950. About 1 million dollars of gold from about 100,000 tons of ore were produced from the combined Gateford holdings.

In 1911 gold was discovered on the "Baldwin" property 1300 meters north of the claim. The property was developed with a shaft to 400 feet, 920 feet of crosscutting, and 1120 feet of drifting. Fine grained native gold associated with molybedenite and chalcopyrite occurs in several east-west oriented quartz stringers within a carbonate schist. Shoots also occur in red syenite porphyry dykes and light pink fine grain syenite. The shaft and workings are in the Temiskaming aged sediments.

In 1939 gold was discovered 1100 meters north -west of this claim on the Rogick-Elliott-Clark claims. Extensive trenching and drilling showed gold values up to about ½ ounce per ton in gold bearing zones up to 20 feet wide, associated with sheared contacts of red syenitic dykes and carbonate rock. In the late 60's early 70's much of the surface exposures have been removed by open cutting. No report of recovered gold was disclosed.

In around 1944, Sylvanite Mines reported gold values across 2 to 4 feet in a quartz veined zone in schist. about 1 kilometer south of this claim. No follow up work reported.

In 1944, the "Lumsden" shaft was sunk on a red porophyry dike about 650 meters west ot the claim line of the the south west boundary of this claim. A pinkish quartz vein at the botton of the shaft assayed about .17 ounces per to across five feet. No reported follow up drilling or work. This is probably represents the west continuation of the Todora geology described next. This would indicate about 1.2 kilometers of this zone would be present across claim L1239348.

In around 1948, drilling about 600 meters east of the south east end of the claim, on the "Todora" claims encountered molybedenite and chalcopyrite with gold in quartz stringers and quartz porphyry in sheared volcanic rocks and iron formation. About 800 meters farther east the 112 foot "Cheltonia" shaft

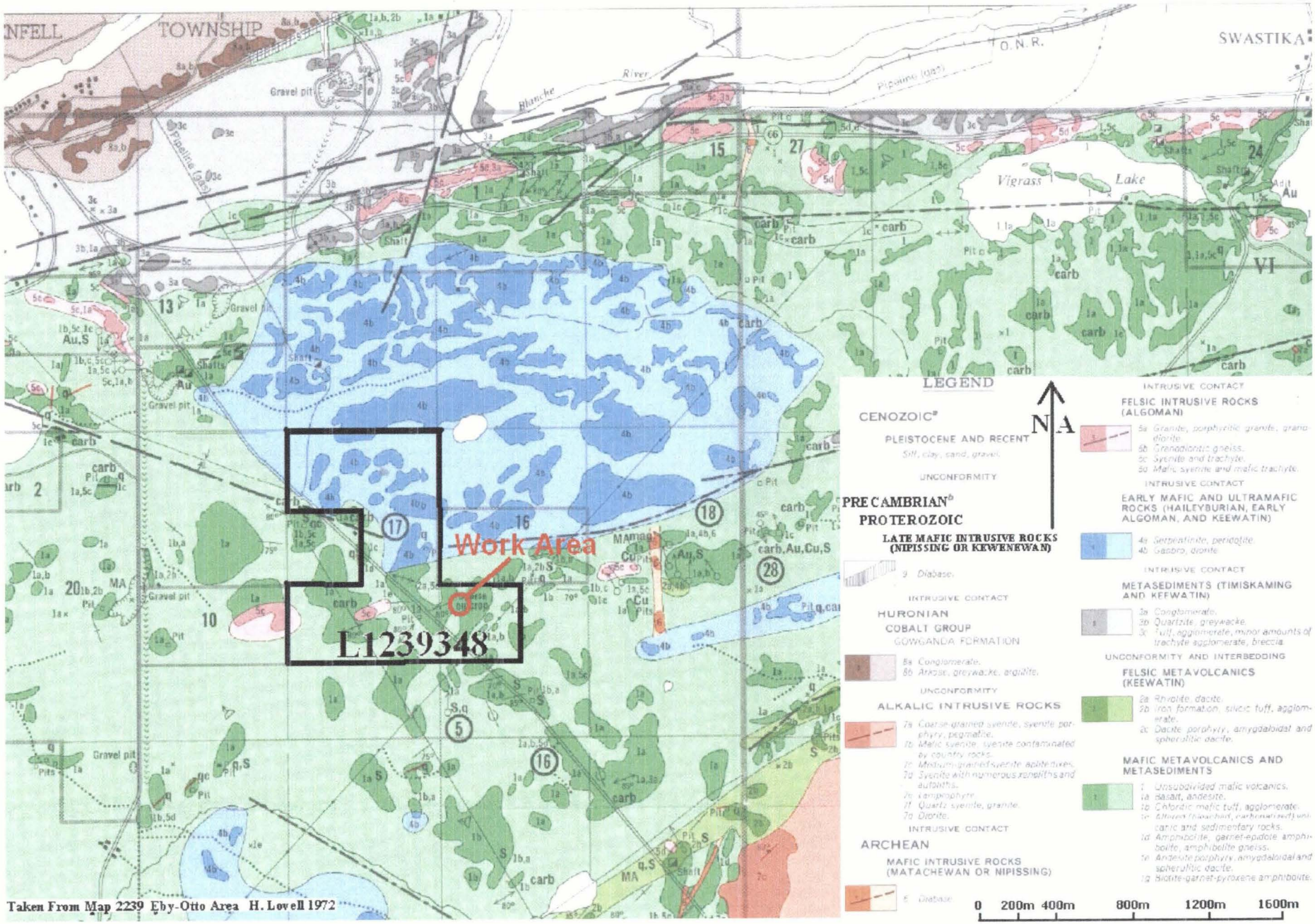

TOWNSHIP
SWASTIKA
O.N.R.
Vigrass
Lake
Work Area
L1239348
Taken From Map 2239 Eby-Otto Area H. Lovell 1972
LEGEND
CENOZOIC
PLEISTOCENE AND RECENT
Silt, clay, sand, gravel.
UNCONFORMITY
PRECAMBRIAN
PROTEROZOIC
LATE MAFIC INTRUSIVE ROCKS (NIPISSING OR KEWENEWAN)
9 Diabase.
INTRUSIVE CONTACT
HURONIAN
COBALT GROUP
GOWGANDA FORMATION
8a Conglomerate.
8b Arkose, greywacke, argillite.
UNCONFORMITY
ALKALIC INTRUSIVE ROCKS
7a Coarse-grained syenite, syenite porphyry, pegmatite.
7b Mafic syenite, syenite contaminated by country rocks.
7c Medium-grained syenite aplite dykes.
7d Syenite with numerous xenoliths and autoliths.
7e Lamprophyre.
7f Quartz syenite, granite.
7g Diorite.
INTRUSIVE CONTACT
ARCHEAN
MAFIC INTRUSIVE ROCKS (MATACHEWAN OR NIPISSING)
5 Diabase.
INTRUSIVE CONTACT
FELSIC INTRUSIVE ROCKS (ALGOMAN)
5a Granite, porphyritic granite, granodiorite.
5b Granodioritic gneiss.
5c Syenite and trachyte.
5d Mafic syenite and mafic trachyte.
INTRUSIVE CONTACT
EARLY MAFIC AND ULTRAMAFIC ROCKS (HAILEYBURIAN, EARLY ALGOMAN, AND KEEWATIN)
4a Serpentinite, peridotite.
4b Gabbro, diorite.
INTRUSIVE CONTACT
METASEDIMENTS (TIMISKAMING AND KEEWATIN)
3a Conglomerate.
3b Quartzite, greywacke.
3c Tuff, agglomerate, minor amounts of trachyte agglomerate, breccia.
UNCONFORMITY AND INTERBEDDING
FELSIC METAVOLCANICS (KEEWATIN)
2a Rhyolite, dacite.
2b Iron formation, silicic tuff, agglomerate.
2c Dacite porphyry, amygdaloidal and spherulitic dacite.
MAFIC METAVOLCANICS AND METASEDIMENTS
1 Undubdivided mafic volcanics.
1a Basalt, andesite.
1b Chloritic mafic tuff, agglomerate.
1c Altered (haschard, carbonatized) volcanic and sedimentary rocks.
1d Amphibolite, garnet-epidote amphibolite, amphibolite gneiss.
1e Andesite porphyry, amygdaloidal and spherulitic dacite.
1g Biotite-garnet-pyroxene amphibolite.
0 200m 400m 800m 1200m 1600m

Figure - 4

was sunk south of the zone but crosscutting did not go far enough to encounter the shearing. Grab samples from pits in the shaft area reported up to 13% copper.

From about 1988 to present work by Allsopp and Huston in the Todora and Cheltonia area, overburden stripping exposed a chalcopyrite vein system up to 1 m wide. At the southern contact of this vein system, chalcopyrite is locally concentrated in a band up to 10 cm wide that grades up to 12.13% Cu. The mineralized zone strikes 060°, has a near vertical dip and is hosted within carbonatized mafic volcanic rock that is exposed over a 25 m width. Chalcopyrite is also exposed in another overburden-stripped area to the east. A syenite intrusion is exposed at the northern side of both stripped areas. Drilling of several holes has had limited success in gold values but has established an extensive fault related alteration system. The potential that may exist along strike and at depth of a major alteration zone with associated IP anomalies along the Eby–Otto fault, both on the property and to the west of it on . This fault zone is located 1.5 km south of the Cadillac–Larder Lake deformation zone.

Sharpley (1999) describes the mineralization and alteration on the Allsopp property as follows:

A major zone consisting of iron carbonate, silicification and pyritization occurs over a strike length of 1000 m and a width of 200 m on the Allsopp-Huston Property along the Eby-Otto fault, which is a subsidiary of the Cadillac-Larder Lake Break within the Larder Lake Group of tholeiitic volcanics. A zone of silicified breccia occurs within the envelop of alteration with disseminated pyrite over a strike length of 600 m and over a width of 50 m. Geochemically anomalous values occur in and around the alteration zone ranging up to 1851 ppb (Au). Moderate to strong induced polarization (chargeability) anomalies occur within the alteration zone over a strike length of 800 m and a width of 100 m.

In 2005, the Resident Geologist staff visited the area of the Cheltonia shaft now held by and referred to as the Allsopp property. "*Silicified, carbonatized and chloritized rock, probably altered mafic volcanic rock, occurs on the access road to the overburden stripped areas at NAD83 Zone 17 562856E / 5325623N. The rock has undergone micro-fracturing with specularite? fracture filling and contains up to 15% pyrite. This rock unit is perhaps similar to the silicified breccia described by Sharpley (1999). A similar rock also occurs, probably on strike, 1.45 km to the west-northwest in an outcrop on the western side of Hwy 11 at approximately NAD83 Zone 17 561455E / 5325782N. If the mineralized and hydrothermally altered sites are part of a continuous zone then the strike length could exceed more than 2.0 km. Although the gold content associated with this large mineralized alteration zone is generally low, sporadic gold values ranging up to 1851 ppb make it a very attractive target for further exploration. A number of gold deposits in the Kirkland Lake Resident Geologist District such as the Lightning Zone at the Holloway Mine, "flow ore" at the Kerr Mine and the "D" zone at the Cheminis Mine do not come to surface. In the plane and above these orebodies/deposits there is ample evidence at surface for their existence in the form of carbonatization, silicification, pyrite mineralization and minor, sporadic gold mineralization. The best potential for mineralization along this alteration zone should be determined by an IP survey measuring to a depth of 400 m as suggested by Sharpley (1999). Deep drilling should then follow up on the most favourable IP defined targets to ultimately test to a depth of 400 m below surface and possibly beyond*". (Meyer et el 2005 ref: Appendix A & B)

PREVIOUS WORK

In 1919 Eby Township was included in mapping by H. C. Cooke of the Geological Survey of Canada while mapping the Kenogami, Round, and Larder Lakes areas.

In 1935, W. S. Dyer of the Ontario Department of Mines mapped Eby Township as part of the Geology and ore deposits of the Matachewan-Kenogami area.

In 1967 Eby Township was mapped by H. L. Lovell of the Ontario Department of Mines. The report and colored geology map M-2239(1inch to ½ mile) was released in 1972 as Geological Report 99.

Undoubtably the area was looked at by many prospectors in the early part of the 1900's as the Swastika Camp and then the Kirkland Lake Camp were being opened up and gold discoveries were drawing many to the area. As for submitted assessment work on file for the area, several work programs have been conducted on various parts of the claim area over the last half century century.

In 1966, Taylor Gold Mines conducted wide spaced ground magnetometer surveys on concession 5, lot 3, NE¼ and SE¼ of the N½ and the NE¼ and NW¼ of the S½. A high anomaly striking east to N45E was outlined across the two southern claims. The work was conducted during the winter and the area was not prospected. According to the company report, the anomaly was presumed to be due to magnetite rich sections within the mafic flows, or possibly lean iron formation. No follow up work after break up was reported.(ref : KL 2626)

In 1987, Mary Ellen Resources performed a VLF and magnetometer survey on concession 5, lot 3, SE¼ of the N½. Lines at 100 meter spacings and readings were taken at 25 meter stations. Conductors and magnetics showed a trend at about N 70 to 80 E. No follow up on the defined anomalies. (ref : KL 1760)

In 1988, Mary Ellen Res performed a VLF survey on concession 5, lot 3, NE¼ and NW¼ of the N½. Follow up trenching on a defined conducter revealed a north east trending fault intruded by a mafic dike which carried up to 5% pyrite over 2 foot widths. Gold values were reported as negligable. (ref :KL 1760)

In 1988, Butte Canyon Resources held concession 5, lot 3, NE¼ and NW¼ of the S½.as L802124 and L802125 respectively, as part of a larger holding. Butte carried out geological mapping, sampling, geochemical assessment, magnetometer and electromagnetic surveys. The surveys outlined the general east-west trend of the geology. Of note is the results of two samples taken from the highway rock cut on the north eastern part of L802124 . Sample #4928 and #4929 returned values of 387ppb platinum and 390 ppb platinum respectively. Sample #4935 taken about 150 meters SW of the above samples returned 1,500 ppm Cr, 534 ppm Ni and 63 ppb Au. About 90% of the 35 - 45 scattered outcrops mapped on the two claims are pervasively carbonitized or chloritic.No follow up work on these areas has been reported. (ref : KL 309). The two claims lay within a broad east-west alteration corridor associated with the Eby - Otto fault zone described by Meyer et.al.-2005.

In 1994-96, Doug Robinson conducted linecutting, magnetometer, max-min surveys, geological mapping, hand stripping, and sampling on concession 5, lot 3, NE¼ of the S½ and concession 5, lot 2, NW¼ of the S½, as part of a program on a larger claim group. The program defined an east- west zone of widespread carbonate alteration and quartz veining at least 600 meters long by up to 200 meters wide. Reported gold values were low. Numerous drill targets were defined by the program but no drill program was conducted. (ref : KL 3773)

In 1997-1998, Carl Huston performed line cutting, magnetometer survey and sampling on the southern 3 claims of L1239348. Negligible preliminary results were obtained. The work was not submitted as assessment work and the claims were allowed to lapse.

Since staking in 2002 , the author of this report prospected, performed some hand stripping and sampled various areas of this claim block. On concession 5, lot 2, NW¼ of the S½ , several X-Ray drill holes were cored in an area of extensive carbonate alteration with attendant quartz veining defined by the previous claim holder.EDH 1-4 encountered altered mafic volcanic rock with carbonate and chlorite alteration. A core sample of 950 ppb gold over about 1.5 feet did not connect to the other tightly spaced holes in the fan drilled so the orientation of the feature remains unknown. X-Ray drilling about 100 meters to the east of this area defined a north trending breccia-quartz about 2 meters average thickness. The zone is visually identical to the gold bearing breccia-quartz zones found on the subsidiary breaks of the main Kirkland Lake mineralized trend. Limited sampling showed scattered elevated values of molybedenum, copper, silver, and lead but gold values did not exceed 50 ppb. The vein/breccia remains open along strike and dip.

In around 2007, two short holes drilled in the south-southwest region of L1239349. Thin quartz

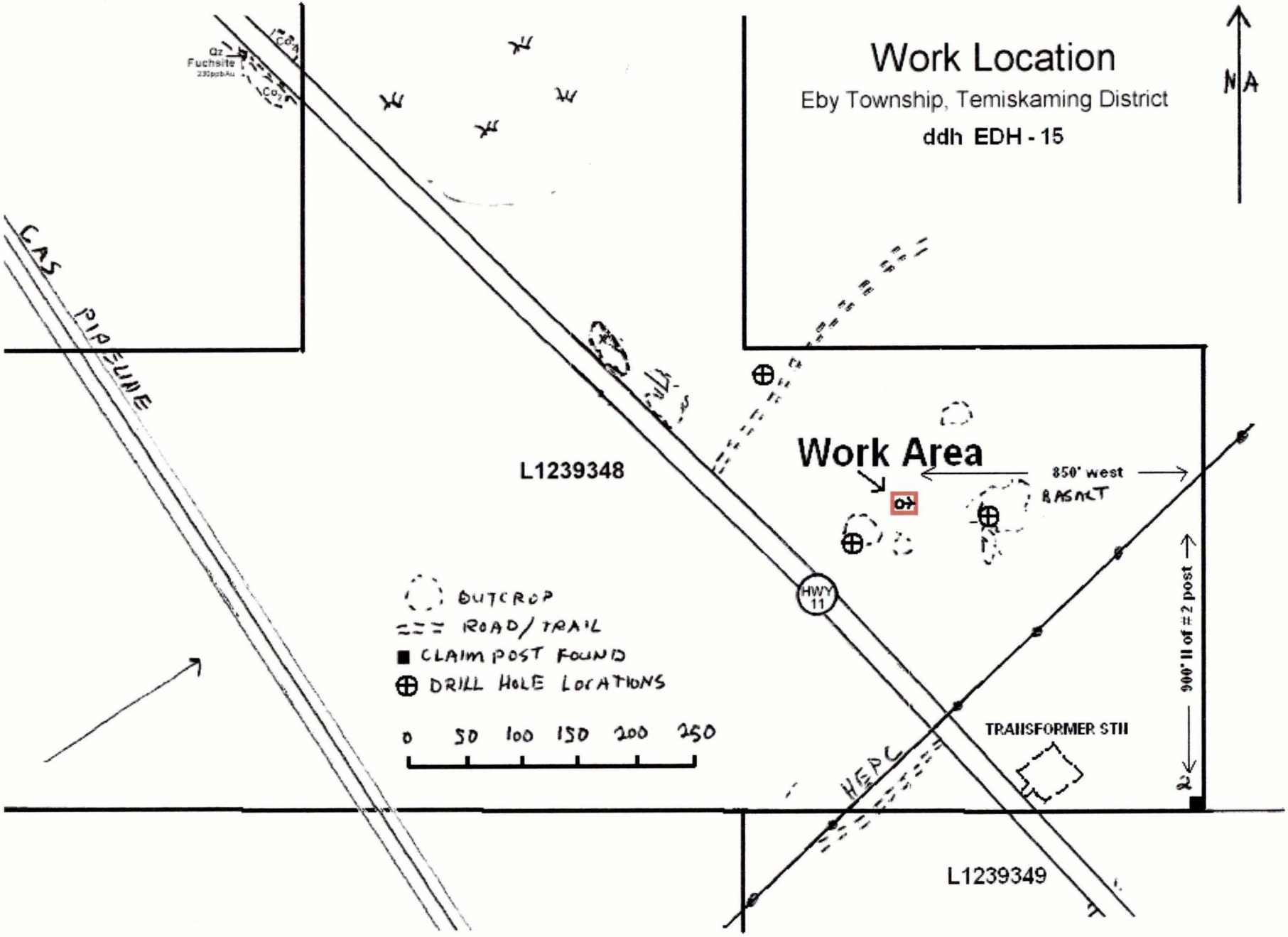

Work Location
Eby Township, Temiskaming District
ddh EDH - 15
N
A
Qz
Fuchsite
230ppbAu
Co
Co
GAS PIPELINE
L1239348
Work Area
850' west
BASALT
HWY 11
OUTCROP
ROAD/TRAIL
CLAIM POST FOUND
DRILL HOLE LOCATIONS
0 50 100 150 200 250
900' N of #2 post
TRANSFORMER STN
HEPC
L1239349

Figure - 5

carbonate stringers and hematite alteration on surface and in drill holes showed low values of gold. Sludge sampling showed elevated zinc and copper values. In summer 2013 a short drill hole in chloritized mafic volcanic rock was drilled on the north-east area on the NW¼ of the S½ of Lot2, Con5. This hole was stopped when open cave/circulation loss was encountered at 59'.

During the winter of 2010, 6.1 kilometers of grid was cut and a walking magnetometer survey was performed by Douglas Robinson over the north part of L1239348. Interpretation of the survey showed two trends of approximate 060° trend parallels the approximate trend of the LCDZ just to the north of the claim and may be of signifigance as a sub to parallel splay feature. It is interesting in that most of the gold showings in the area are apparently associated with the east-west rather than the 060° trend. Limited follow up work on target areas show little mineralization at surface.

In the summer of 2013 hand stripping was done southeast L1239348 around a north-south trending quartz vein in a variably chloritized and hematized, fine to medium grained, carbonate altered, mafic volcanic breccia? with pale-yellow to beige sericite flakes and wispy stringers. Assays of vein material showed molybdenum, lead and unexplained high chrome assays.

PRESENT WORK

During July 2013, an X-ray drill hole was started on the south-east part of L1239348, being Lot 2 Con.5, NW¼ of the S½ in Eby Township. This hole is designated EDH-15. It was collared at a dip of -56° at a bearing of 078° ast. This work is under Exploration Plan # PL-13-10150. The originally collared hole EDH-14, lost water circulation in open ground between 56 and 57 feet. After the water source dried up, the equipment was moved closer to a water source on a recently hand stripped area. The new location is about 150 feet west north-west of several previous short drill holes (EDH-5 to 10) where a quartz-breccia vein with scattered anomolous assays were encountered in the holes. It is anticipated to encounter this feature at about 100 feet down hole at this site, if our geometry is correct, and or if the structure persists.

RESULTS/CONCLUSIONS

The drill successfully encountered the fault related alterations noted in the Resident geologist property visit about 1.5km to the east. (ref::appendix A & B). The rock encountered is a variably chloritized and hematized, fine to medium grained, carbonate altered, non magnetic, mafic volcanic rock/breccia with numerous crosscutting quartz carbonate stringers, and generally less than 2% pyrites. Pale-beige to beige, sericite flakes and wispy stringers occur randomly in patches. A 2½ foot (ore length) pyritic smokey quartz vein at about 15 ⅔ feet to 18⅓ feet with molybdenite? specs. Also noted is specularite filled fractures and chloritic fracture fillings lined with specularite. Sludge assays are to be done followed up by core assays at that time.

The hole encountered several rusty open cracks in the bedrock and by 27 feet, most of the water circulation was lost. With this small equipment it is difficult to turn the drill rods in a dry drill hole as the rock walls create much friction against the rods. Sand entering the hole was causing difficulty extracting the rods. Several ineffective attemps were made to plug off the cracks by pouring circulation material (G-Stop) and a chemical cement into the hole. Drilling continued untill 39 feet at which point the hole was stopped to avoid loss of the equipment. Another hole is being drilled with a steeper dip in an attempt to pass the fracturing and avoid the sand entering the hole. The intended target has yet to be encountered.

EDH - 15
Section looking North

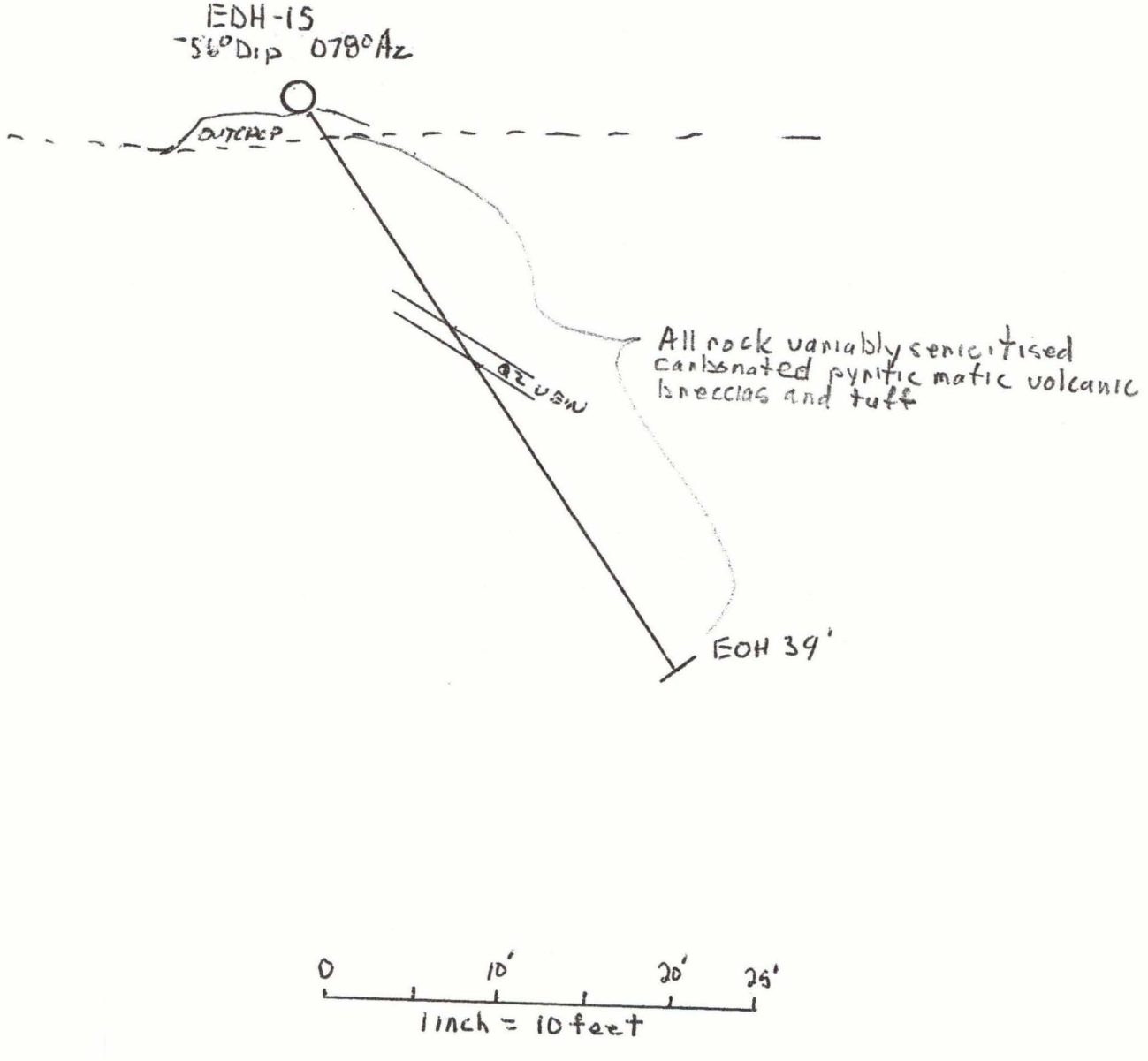


Figure - 6

Ontario — Northern Development and Mines / Développement du Nord et des Mines

Drilling Log — forage au diamant

related sketch in duplicate. Remplir en deux exemplaires la présente formule et le croquis annexé

Fill in on every page. Remplir ces cases à chaque page

Hole No. / Forage n° EDH-15 — Page / Page 1

Drilling Company / Compagnie de forage: E. MARION	Collar Elevation / Élévation du collier	Bearing of hole from true North/Position du forage par rapport au nord vrai: 078° Azt	Total Footage / Avancement total du forage: 39'	Dip of Hole at / Inclinaison du forage au: Collar/collier -56°	Address/Location where core stored / Adresse/endroit où la carotte est stockée: 611 GOUT RD WEST. K.L
Date Hole Started / Date de commencement du forage: JULY 20, 2013 — Date Completed / Date d'achèvement: JULY 30, 2013	Date Logged / Date d'inscription au journal: NOV 3/2013	Logged by / Inscrit par: E. MARION		Ft./Pi	
Exploration Co., Owner or Optionee / Compagnie d'exploration, propriétaire ou titulaire d'option: E. MARION	Date Submitted / Date de dépôt: APR, 2014	Submitted by (Signature) / Déposé par (signature): E. MARION		Ft./Pi	
				Ft./Pi	

Map Reference No. / N° de référence sur la carte	Claim No. / N° de concession minière
42A-1	L 1239348

Location (Twp. Lot, Con. or Lat. and Long.) / Emplacement (canton, lot, concession, ou latitude et longitud): Lot 2, Con 5, NW¼ of S½

Property Name / Nom de la propriété: HWY 11 -

Footage/Avancement From/De	To/À	Rock Type / Type de roche	Description (Colour, grain size, texture, minerals, alteration, etc.) / Description (Couleur, granulométrie, texture, minéraux, transformation, etc.)	Planar Feature Angle*/Angle des caractéristiques planes	Core Specimen Footage †/Longueur en pieds des carottes prélevées	Your Sample No. / N° d'échantillon du prospecteur	Sample Footage/Niveau de prélèvement de l'échantillon (en pieds) From/De	To/À	Sample Length / Longueur de l'échantillon	Assays †/Analyses minéralurgic
0	39	MAFIC VOLCANIC	FINE TO MEDIUM GRAINED, TUFFACEOUS TO AGGLOMERATIC							
			BASALT/ANDESITE, VARIABLY BLEACHED AND FRACTURED SECTIONS							
			MORE SILICIOUS. MANY CROSS CUTTING CALCITE-QZ STRINGERS						-	
			AND WISPS WITH DOMINANT TRENDS AT 17° TO 20°,							
			30° TO 35°, AND 45° TO 50°. ALL ROCK CARBONATE ALTERED							
			(WEAK HCL BUBBLES WELL) CHLORITE FILLED FRACTURING							
			THROUGHOUT WITH SOME OBLIQUE CHLORITIC STRINGERS							
			SHOWING SPECULARITE? BUFF TO BEIGE SERICITE WISPS, FLAKES							
			AND REPLACEMENTS AND HEMATIZATION THROUGHOUT. 1% TO 5% PY		SLUDGE	20157	0	11	11'	
		6½'-8'	BLEACHED SILICIFIED SECTION WITH CHLORITIC FRACTURING		SLUDGE	21158	11	26	15'	
		15'8"-18'4"	SMOKY QUARTZ VEIN WITH FAIR FINE GRAIN PY IN PINPOINT		SLUDGE	20159	26	30	41	
			TO ½MM SINGLE GRAINS TO SMALL AGGREGATES, BRASSY GRAINS							
			AND BLUE/BLACK SPECKS OF PYRITE THROUGHOUT. UPPER							
			CONTACT AT ABOUT 45° TO CA. GROUND LOWER CONTACT							
		20'-20'3"	QZ-CALCITE-ANKERITE? MASS AT ABOUT 30° TO CA - FINE PY							
		19'4"	3/16 QZ VEIN AT ABOUT 30° TO CA WITH HEMATITE STRINGER							
			ALONG UPPER CONTACT							
		23'4"-23'10"	QZ VEIN WITH BLEACHED BUFF PINK WALLROCK MANY CALCITE							
			STRINGERS. 38'4'-39'-QZ VEIN. F.G. PYRITE THROUGHOUT							

0204 (03/91)

*For features such as foliation, bedding, schistosity, measured from the long axis of the core.
*Exemples de caractéristiques : foliation, schistosité, stratification. L'angle est mesuré par rapport à l'axe longitudinal de la carotte.

† Additional credit available. See Assessment Work Regulation.
† Des crédits supplémentaires sont offerts. Consulter les règlements relatifs aux travaux d'évalua

Note : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre

EDH-15 Core Sample Pics

All core is ⅞ inch XRP size



Visually striking qz & hematized/sericitized volcanic fragments with chlorite & specularite along stringers



Bleached sericitized fragments in mostly chlorite matrix



Bleached hematized and sericitized, specularite stringers with a few flecks of chalcopyrite



Specularite-chlorite stringers in qz veined carb-sericite altered breccia



Pyritic stringers around qz vein in altered mafic tuff-breccia



Hematite-specularite stringer in sericite/carbonate altered tuff-breccia

Figure - 7

SAMPLES

Notes

on that part of L1249348 described as

Lot 2, Concession 5, North West ¼ of the South ½

EDH - 15

20157 - sludge sample 0' to 11' about 75% water return from 8' to 11'

20158 - sludge sample 11' to 26' down to about 40% water return at 26'

20159 - sludge sample 26' to 32' total loss circ at 32',
some fine sand coming into hole

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Ministry of Northern Developement and Mines
Resident Geologist Files, literally scores of files of submitted assesment work files covering many claim areas in Bernhardt Township, Eby Township, Grenfell Township, Gauthier Township, Lebel Township, Morrisette Township, Otto Township, Teck Township,

Appendix A

Open File Report 6007
Ontario Geological Survey
Resident Geologist Program
Kirkland Lake Regional Resident Geologist
(Kirkland Lake District) - 1999
by
G. Meyer, G.P.B. Grabowski, D.L. Guindon and M. Charette 2000

KIRKLAND LAKE DISTRICT–1999
Recommendations for Exploration
ALLSOPP-- HUSTON GOLD PROPERTY

.....pg15

The Allsopp--Huston property, consisting of 12 leased mining claims, is located 10 km southwest of Kirkland Lake in Eby and Otto townships. The property has a long history of exploration, dating back to the 1930's, and includes detailed geological mapping, trenching, magnetometer, and IP surveys, diamond drilling and development of a 32 m deep shaft. A major altered deformation zone, consisting of iron carbonate, silicification and pyritization, occurs over a strike length of 1000 m and a width of 200 m on the property along the Eby--Otto fault. This fault is a subsidiary of the Larder Lake Break within Archean tholeiitic metavolcanic rocks. A silicified breccia zone with disseminated pyrite is hosted within the altered deformation zone. The breccia zone has a strike length of 600 m and a width of 50 m. Geochemically anomalous gold values, ranging up to 1851 ppb Au, occur in the breccia zone and the alteration zone. Moderate to strong IP (chargeability) anomalies occur within the alteration zone over a strike length of 800 m and a width of 100 m. The IP anomalies in the alteration zone along the Eby--Otto fault, 1.5 km south of the Larder Break, are attractive targets for further exploration.

The past-producing Swastika Mine, on the Larder Lake Break, is located 4 km northeast of the property. The recently discovered Amalgamated Kirkland deposit, located along a subsidiary fault north of the Larder Lake Fault Zone, is 9 km to the northeast. The nature of several gold deposits in the Kirkland Lake – Larder Lake gold belt is such that they occur at depth within carbonate--altered rocks exhibiting geochemically anomalous gold concentrations at surface. The alteration and anomalous gold values tend to envelop potentially economic gold mineralized zones and continue to surface above "blind", deep--seated gold deposits. The Amalgamated Kirkland deposit is an example and occurs at a depth of 250 m with alteration and anomalous gold values continuing to surface. In view of the experience at the Amalgamated Kirkland, a program of deep IP is warranted to explore at depth the geochemically anomalous gold values associated with extensive Fe--carbonate alteration and silicification at surface.

.....pg16

A two--phase program is recommended. The first phase should consist of line cutting, magnetometer, fill--in and deep IP surveys, trenching, stripping, geological mapping and sampling. The second phase should diamond drill test deep IP anomalies at depth. (Proposal -- courtesy Sharpley 1999, Meyer et. al. 1991 and Kirkland Lake Assessment File No. KL 4110).

Meyer, G., Cosec, M., Grabowski, G.P.B., Guindon, D.L., Chaloux, E.C. and Charette, M. 2000. Report of Activities 1999, Resident Geologist Program, Kirkland Lake Regional Resident Geologist Report: Kirkland Lake and Sudbury Districts; Ontario Geological Survey, Open File Report 6007, 88p.

Appendix B

ONTARIO GEOLOGICAL SURVEY
Open File Report 6184
Report of Activities, 2005
Resident Geologist Program
Kirkland Lake Regional Resident Geologist Report:
Kirkland Lake District
by : G. Meyer, G.P.B. Grabowski, D.L. Guindon and E.C. Chaloux, 2006

PROPERTY EXAMINATIONS

Allsopp Prospect – Former Harrington Prospect.....pg11

The A. Allsopp property is located in the northeast corner of Eby Township, approximately 10 km southwest of Kirkland Lake. The property consists of 12 leased claims, 11 with mining rights only and one with surface and mining rights.

Overburden stripping at location NAD83 Zone 17 562991E / 5325585N **(A**)exposed a chalcopyrite vein system up to 1 m wide. At the southern contact of this vein system, chalcopyrite is locally concentrated in a band up to 10 cm wide that grades up to 12.13% Cu (A. Allsopp, personal communication, 2005). The mineralized zone strikes 060°, has a near vertical dip and is hosted within carbonatized mafic volcanic rock that is exposed over a 25 m width. Chalcopyrite is also exposed in another overburden-stripped area to the east at NAD83 Zone 17 563080E / 5325607N (**B**). A syenite intrusion is exposed at the northern side of both stripped areas. The overburden stripping was intended to follow up on high-grade drill intersections that Todora Syndicate reported in 1948 (Huston 2000). Nothing at surface appears to support the reported drill results, and it was already suggested by N.E. Nelson in 1948 that the drill results were likely fraudulent (Huston 2000). This issue has perhaps overshadowed the potential that may exist along strike and at depth of a major alteration zone with associated IP anomalies along the Eby–Otto fault, both on the property and to the west of it. This fault zone is located 1.5 km south of the Cadillac–Larder Lake deformation zone.

Sharpley (1999) describes the mineralization and alteration on the property as follows:

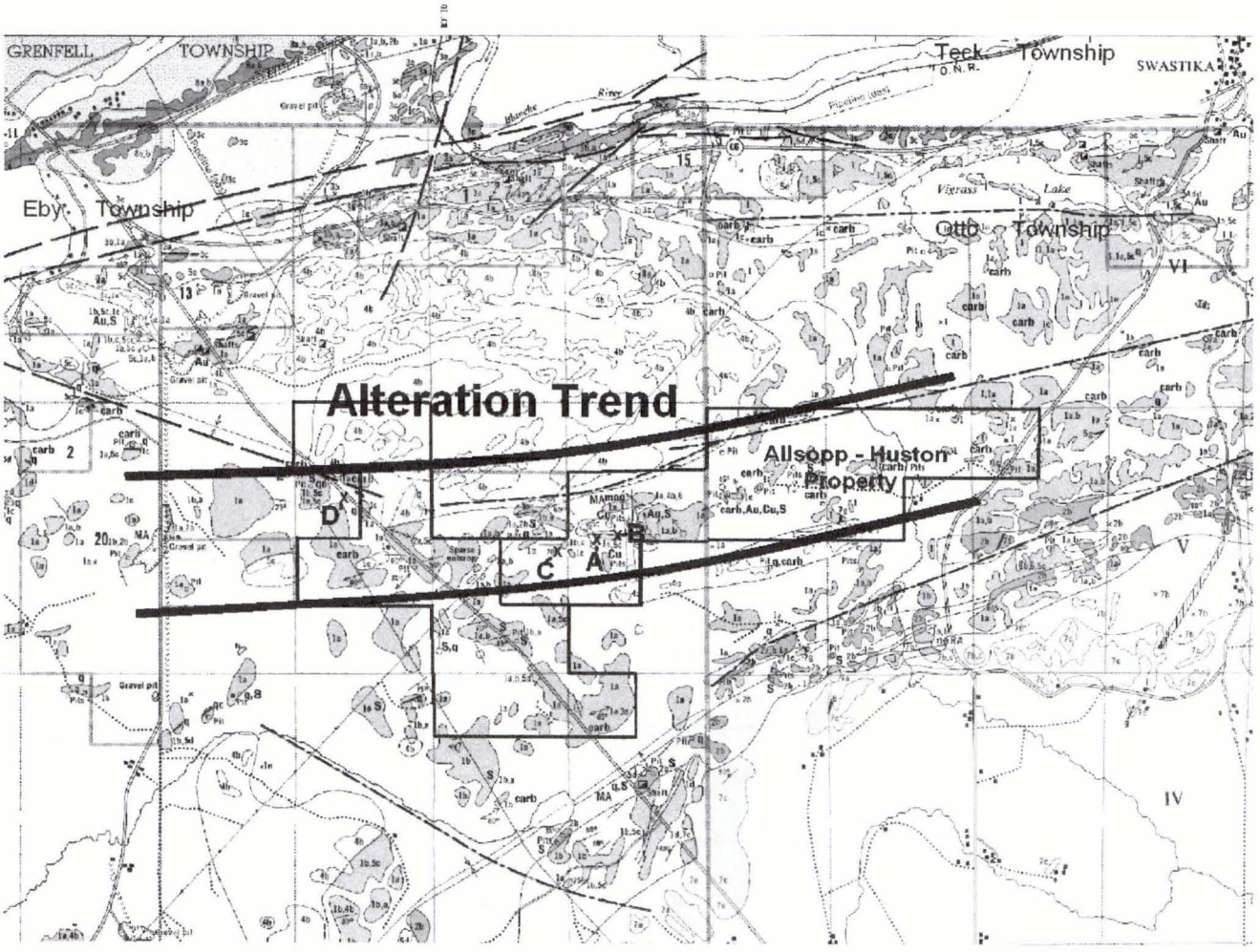
"A major zone consisting of iron carbonate, silicification and pyritization occurs over a strike length of 1000 m and a width of 200 m on the Allsopp-Huston Property along the Eby-Otto fault, which is a subsidiary of the Cadillac-Larder Lake Break within the Larder Lake Group of tholeiitic volcanics. A zone of silicified breccia occurs within the envelop of alteration with disseminated pyrite over a strike length of 600 m and over a width of 50 m. Geochemically anomalous values occur in and around the alteration zone ranging up to 1851 ppb (Au). Moderate to strong induced polarization (chargeability) anomalies occur within the alteration zone over a strike length of 800 m and a width of 100 m".

Silicified, carbonatized and chloritized rock, probably altered mafic volcanic rock, occurs on the access road to the overburden stripped areas at NAD83 Zone 17 562856E / 5325623N(**C**). The rock has undergone micro-fracturing with specularite? fracture filling and contains up to 15% pyrite. This rock unit is perhaps similar to the silicified breccia described by Sharpley (1999). A similar rock also occurs, probably on strike, 1.45 km to the west-northwest in an outcrop on the western side of Hwy 11 at approximately NAD83 Zone 17 561455E / 5325782N (**D**). If the mineralized and hydrothermally altered sites are part of a continuous zone then the strike length could exceed more than 2.0 km. Although the gold content associated with this large mineralized alteration zone is generally low, sporadic gold values ranging up to 1851 ppb make it a very attractive target for further exploration. A number of gold deposits in the Kirkland Lake Resident Geologist District such as the Lightning Zone at the Holloway Mine, "flow ore" at the Kerr Mine and the "D" zone at the Cheminis Mine do not come to surface. In the plane and above these orebodies/deposits there is ample evidence at surface for their existence in the form of carbonatization, silicification, pyrite mineralization and minor, sporadic gold mineralization. The best potential for mineralization along this alteration zone should be determined by an IP survey measuring to a depth of 400 m as suggested by Sharpley (1999). Deep drilling should then follow up on the most favourable IP defined targets to ultimately test to a depth of 400 m below surface and possibly beyond.

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Meyer, G., Grabowski, G.P.B., Guindon, D.L. and Chaloux, E.C.
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Appendix B


GRENFELL
TOWNSHIP
Teck
Township
SWASTIKA
T.O.N.R.
Eby
Township
Lake
Vigrass
Ottb
Township
Alteration Trend
Allsopp - Huston
Property
D
B
C
A
VI
V
IV