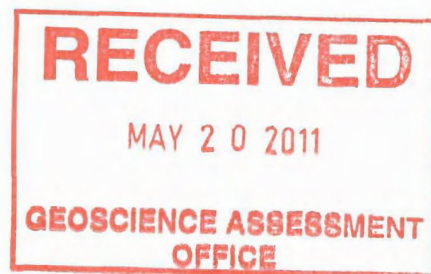


GEOTECHNICAL REPORT ON THE  
QUARTZ LAKE PROPERTY  
FRIPP TOWNSHIP  
PORCUPINE MINING DIVISION  
FOR  
DAVID M LEFORT



Date of completion may 15 2011

Submitted by: David M Lefort

Hard Rock Exploration

2.48494

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## **INTRODUCTION**

David M Lefort, cut and established a line cut grid on claim 4243964, located in north central Fripp township, Porcupine mining division, district of Cochrane. Shetima Tekune of Sudbury on was hired by David M Lefort to identify all rock types present on grid and trace the veining system on the south shore of the east arm of Quartz Lake.

The purpose of the line cut grid was to locate quartz vein and possible parallel veining ,extend the known strike of vein on southshore of east arm,All Az and dip, will be recorded to apply in the search for vein extension.

The data obtained from the survey will be used to aid in finding Vein extension on the west side of Quartz Lake,west of the mattagammi fault,where another east west fault is present as shown on the geological map attached to this report,and also on Map P.3565 Geological Compilation of the Abitibi Green Stone belt

## **Access and Location**

Access to the claim group is gained by 4x4 truck via Pine st south ,travel 20 km south of Timmins and then 7 km west through a series of logging roads,from the truck approx 150m traverse down a trail to the lake.A snowmobile was used to acces the claim group from pine south during work preformed in april 2011

The claim group is located in the north central portion of Fripp Twp, Porcupine mining division, district of Cochrane. The claim group is 36 contiguous unpatented mining claims and covers nearly all of Quartz Lake and some of the surrounding area .

**GENERAL GEOLOGY** The claim group is underlain by early to late pre-cambrian age meta-sediments and meta-volcanics interrupted by diabase dikes and by granite with accompanying red aplite dikes, as interpreted from Map 2205 Timmins Kirkland Lake Geological Compilation Series.

<b><u>CLAIMS GROUP</u></b>	<b><u>CLAIM #</u></b>	<b><u># OF UNITS</u></b>	<b><u>TOWNSHIP</u></b>	<b><u>RECORDED HOLDER</u></b>
	4243962	12	Fripp	50% Shay B Simon , 50% David M Lefort
	4243963	2	Fripp	100% David M Lefort
	4243964	1	Fripp	100% David M Lefort
	4243965	2	Fripp	100% David M Lefort
	4243966	3	Fripp	100% David M Lefort
	4243969	16	Fripp	100% David M Lefort

## **PERSONNEL**

The people directly involved with the work described in this report are

David M Lefort (Hard Rock Exploration)

Shay B Simon (Hard Rock Exploration)

Shetima Tekune (geologist)

## **PREVIOUS WORK**

The following is a brief description of previous assessment work filed on the Quartz Lake property.

1927-28 Quarts Lake Mines Ltd

Adit driven into vein on southwest shore of canyon lake, shaft sunk on vein just off the shore near the most eastern part of the east arm of Quartz Lake, diamond drilling, small pit, trenching

1964 O'leary Malartic

Self potential survey, 7 diamond drill holes

1988 Renauld Garneau

Airborne magnetometer and VLF

1992 Dan Tichinoff

Magnetometer survey, VLF-EM survey, I.P survey, Diamond Drill (FRI-92)

2010 David M Lefort - manual overburden stripping, prospecting, assay and analyses

## **CURRENT GEOTECHNICAL WORK PROGRAM**

The baseline was oriented in an east/west direction for 500m and chained at 10m intervals, crosslines were cut every 50m in a north direction up to Quartz lake, stations were established every 10m with pickets and aluminum tags. The baseline was cut over a three day period, april 1-3 2011, access from pine st south was limited to snowmobile due to snow on logging roads.

L0, L50 and L100 were cut on april 4 2011, L150, L200, L250 and L300 were cut on april 5 2011, L300, L350, L 400, L450 and L 500 were cut on april 6 2011

On May 13 2011, Shetima Tekune (geologist) was hired by David M Lefort to identify all rock types, plot out vein wherever encountered on grid, including, measuring of width, strike and dip. This data will be applied in the field to attempt to locate a western extension of this vein as previously mentioned. On previous prospecting David M Lefort traveled by boat to the area in the west side of Quartz lake where David M Lefort believes this vein extension if any will be found, two parallel Quartz veins were picked up from the shoreline and was followed inland few hundred meters to the west. No significant mineralization was found, however, strike, dip, hostrock contact and whatever we can apply from the survey will help us find this fissure vein if present. On May 13 2011 Shetima Tekune and David M Lefort walked all lines cut on the grid, recording the rock types, chip samples were taken every station where bedrock was present and samples were labelled according to stations. Vein was measured where encountered and diamond drill holes were measured for AZ and dip and logged as well as trenches present on grid. In the area where the vein is under water as shown on the map on page 7. David M Lefort and Shetima Tekune did get in a canoe and traverse over the vein where it could be clearly seen in most places, A scuba dive is being contemplated this summer for the purpose of positively identifying the vein under water and obtaining samples.

### **SURVEY RESULTS**

All rock types have been identified and scheduled on page 7 of this report.

L0 +210m Quartz vein, chalcopryite present, 60cm in width, AZ 282, dip 80 N

L50 +210 Quartz vein, chalcopryite present, 80cm in width, AZ 280, dip 77 N

L100+211 Quartz vein, in lake, approximately 1m from shore, sample taken, vein is under water and could not be measured for width, AZ, dip

L150 Quartz vein under water, water too deep to obtain sample or be measured for width, AZ or dip

L200 Quartz vein under water, water too deep to obtain sample or be measured for width, AZ or dip

L250 Quartz vein under water, water too deep to obtain sample or be measured for width, AZ or dip

L300 Quartz vein under water, water too deep to obtain sample or be measured for width, AZ or dip, diamond drill casing found in hole, L300 +25, AZ 356, dip 45N

L350, no outcrops on line, Quartz vein under water, water too deep to obtain sample or be measured for width, AZ or dip

L400+80, Quartz vein, chalcopryrite present, 60 cm in width, AZ 282 , dip 80N

There is trench at lake shown on "Rock Types on Survey Grid" map attached to this report

L450+80, Quartz vein ,chalcopryrite present, 80 cm in width, AZ 280 , dip 80N

L500+100 Quartz vein, chalcopryrite present, 100 cm wide, AZ 280, dip 77N

There is trench at lake as shown on "Rock types on Survey grid" map, attached to this report

Diamond drill casing found in hole, AZ 356 , dip 45N

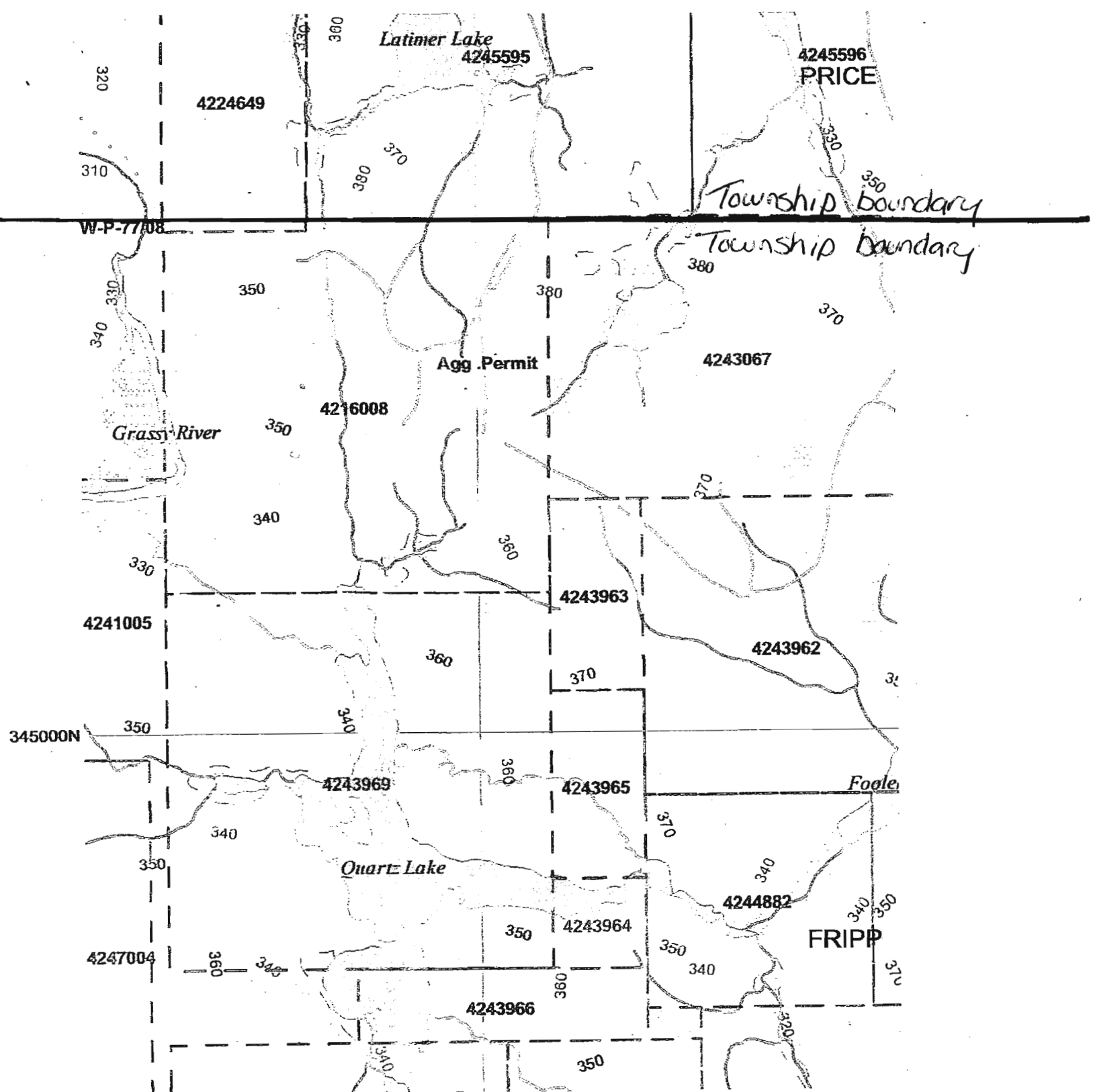
### **RECOMENDATIONS /CONCLUSIONS**

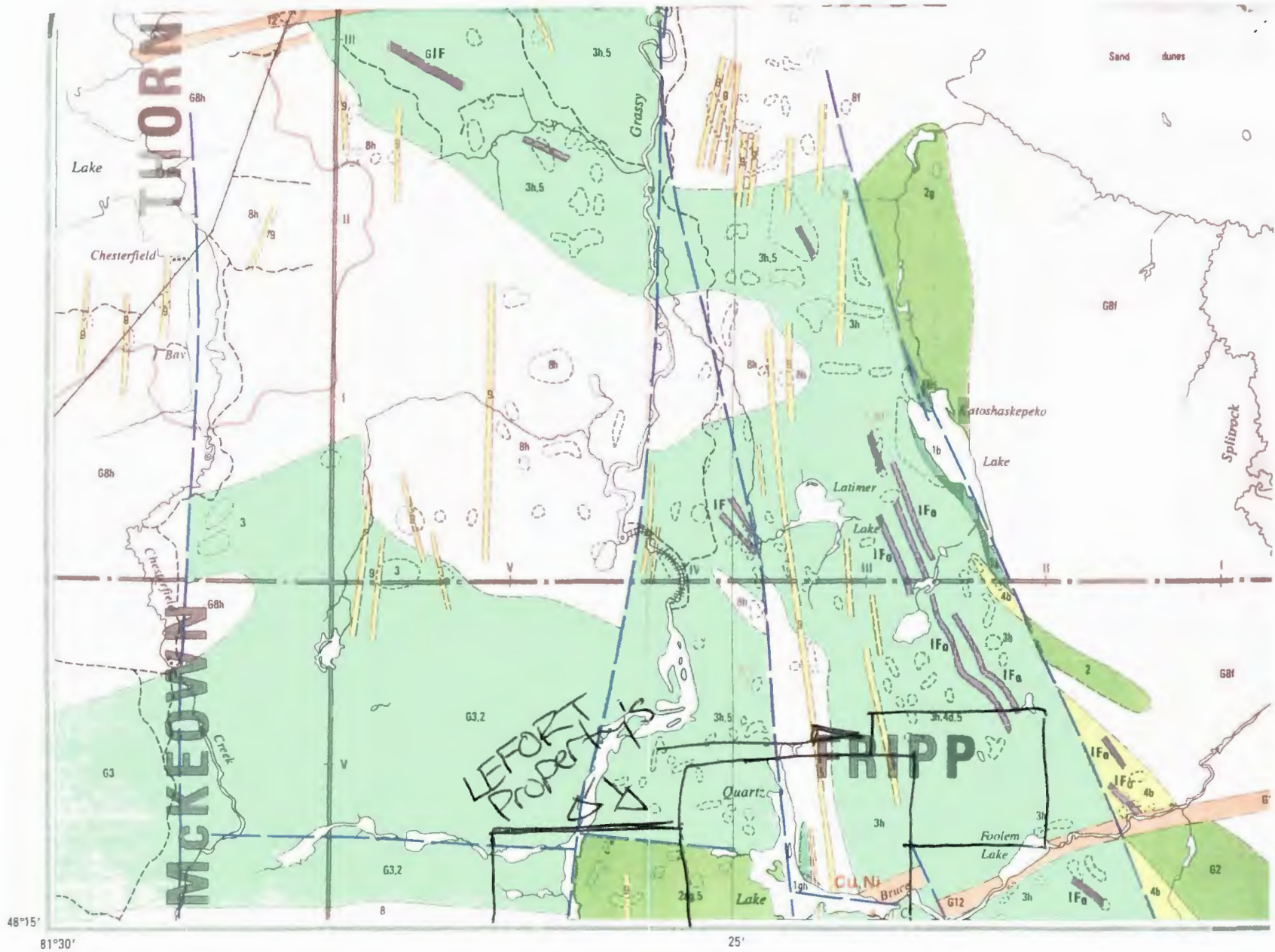
It is conclusive that there is a continuous well mineralized Quartz vein across the entire 4243964 claim. It is recommended that more drilling be done on this vein, as it may prove to be economical at the current time due to base metal prices alone. Although Quartz Lake Mines Limited(1927) has reports of significant gold amounts in the vein, This property will be recognized as a base metal and silver project until analytical evidence proves otherwise.

It is recommended that the vein be further diamond drilled for downward extension, from a point on the the north shore of the east arm of quartz lake, similar to hole FRI-92, but collared farther north, dipping south, to cut the vein at greater depth.

It is recommended that prospecting be done from the veins most eastern known point as shown on map on page 7 of this report, and attempt to locate eastern extension

It is recommended that prospecting be done on the west side of Quartz Lake around the east/west fault identified as shown on the geological map on page 6 of this report, to identify or attempt to find western extension of the vein. The area described is low lying and swampy, outcrops are not abundant and the area will be difficult to work. This will be a primary focus for the summer of 2011.







N Declination 11° west  
 A Scale 1:2000  
 W + E Fripp Twp  
 S

\* all measurements in meters

# Rock Types on Survey Grid

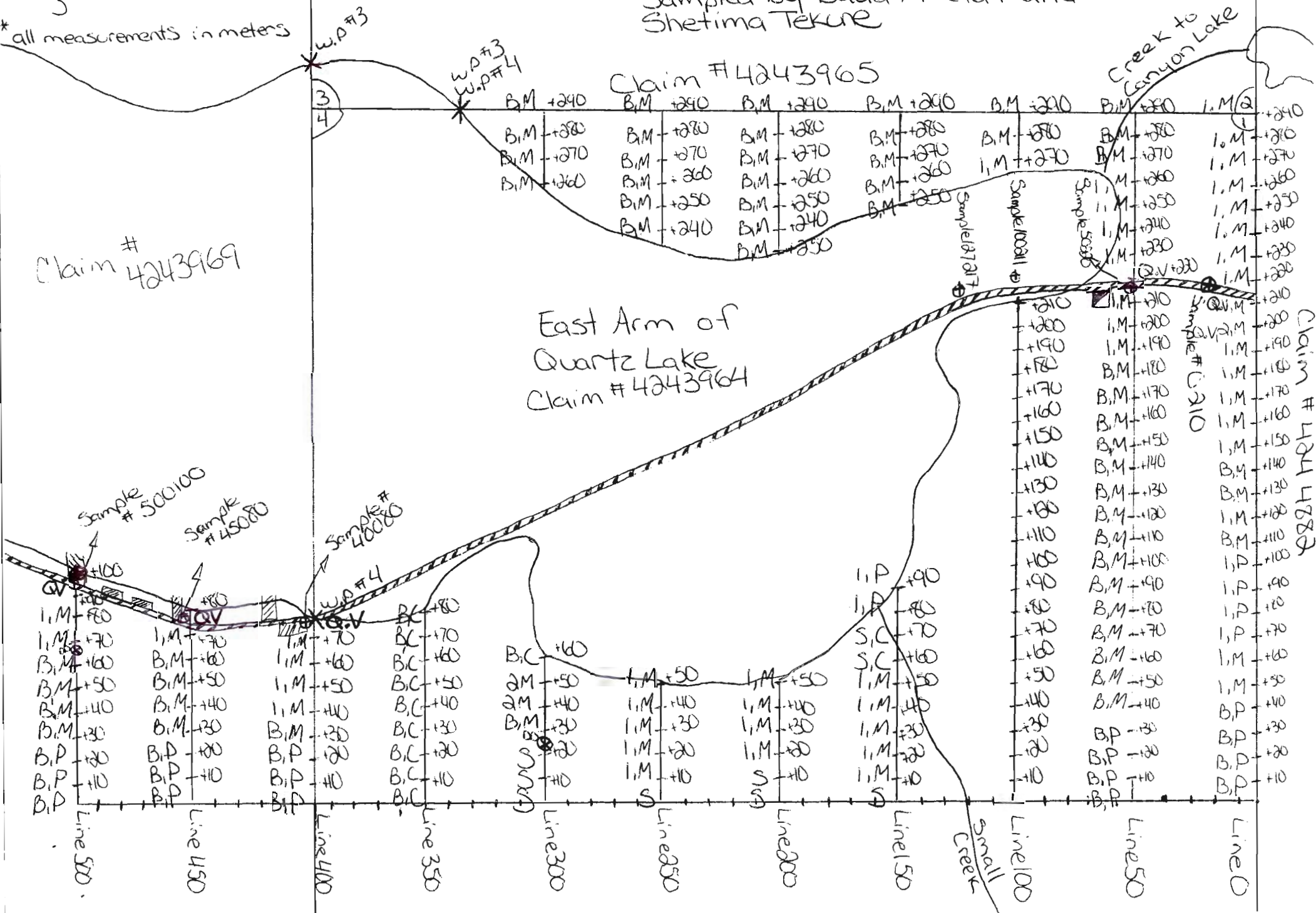
\*note, all lines and stations traversed and  
 Sampled by David M Lefort and  
 Shetima Tekure

Claim # 4243969

Claim # 4243965

East Arm of  
 Quartz Lake  
 Claim # 4243964

Creek to  
 Canyon Lake



Claim # 4243968

Sample # C 210

Small  
 Creek

Line 500	Line 450	Line 400	Line 350	Line 300	Line 250	Line 200	Line 150	Line 100	Line 50	Line 0
I.M. +100	I.M. +100	I.M. +100	B.C. +80	B.C. +160	I.M. +50	I.M. +50	I.P. +90	I.M. +100	I.M. +100	I.M. +100
I.M. +80	I.M. +70	I.M. +70	B.C. +70	B.C. +150	I.M. +40	I.M. +40	I.P. +80	I.M. +90	I.M. +90	I.M. +90
I.M. +70	B.M. +60	B.M. +60	B.C. +60	B.C. +140	I.M. +30	I.M. +30	S.C. +70	I.M. +80	I.M. +80	I.M. +80
B.M. +60	B.M. +50	I.M. +50	B.C. +50	B.C. +130	I.M. +20	I.M. +20	S.C. +60	I.M. +70	B.M. +70	I.M. +70
B.M. +50	B.M. +40	I.M. +40	B.C. +40	B.C. +120	I.M. +10	I.M. +10	T.M. +50	I.M. +60	B.M. +60	I.M. +60
B.M. +40	B.M. +30	B.M. +30	B.C. +30	B.C. +110			I.M. +40	I.M. +50	B.M. +50	I.M. +50
B.M. +30	B.P. +20	B.P. +20	B.C. +20	B.C. +100			I.M. +30	I.M. +40	B.M. +40	B.P. +40
B.P. +20	B.P. +10	B.P. +10	B.C. +10	B.C. +90			I.M. +20	I.M. +30	B.P. +30	B.P. +30
B.P. +10	B.P. +0	B.P. +0	B.C. +0	B.C. +80			I.M. +10	I.M. +20	B.P. +20	B.P. +20
B.P. +0			B.C. +0	B.C. +70					B.P. +10	B.P. +10
			B.C. +0	B.C. +60					B.P. +0	B.P. +0
			B.C. +0	B.C. +50					B.P. +0	B.P. +0
			B.C. +0	B.C. +40					B.P. +0	B.P. +0
			B.C. +0	B.C. +30					B.P. +0	B.P. +0
			B.C. +0	B.C. +20					B.P. +0	B.P. +0
			B.C. +0	B.C. +10					B.P. +0	B.P. +0
			B.C. +0	B.C. +0					B.P. +0	B.P. +0




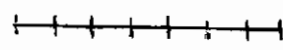

\*note

DD ⊗ Diamond Drill hole  
on Line 300+25  
unknown origin  
AZ 348  
Dip - 45 N, depth unknown

DD ⊗ Diamond Drill hole  
on Line 500+65  
unknown origin  
AZ 356  
Dip - 45 N, depth unknown

## Rock Types on Survey Grid Legend

- Q.V Quartz Vein
- 1 Granite Diorite
- 2 Gabbro
- B Overburden Boulders
- M Mixed Forest
- P Pine Forest
- C Cedar Forest
- A Alders
- S Swamp
- W.P<sub>x</sub> Witness Post
- D Corner Post

-  Trench
-  Shaft
-  Quartz Vein
-  Line cut with 10m Stations
-  Claim borders

**SCHEDULE/DECLARATION OF COST**

\$1617 LINE CUTTING 2.1 KM @770KM

\$21.50 GLOVES X2

\$99.32 CHAIN SAW CHAINS 4@ \$24.83

\$28.64 CHAINSAW BAR OIL 2@ \$14.32

\$504.49 CHAIN SAW "THRU ICE" HUSQVARNA RANCHER 455

REPLACED WITH HUSQVARNA 435 "NOT CHARGED"

\$20 CHAINSAW GAS

\$300 SNOWMOBILE RENTAL. 6 DAYS @ \$50 DAY

\$87.27 SNOWMOBILE GAS/OIL 6 DAYS

\$ 180 TRUCK GAS 6 DAYS, 5.4 L FORD EXPEDITION 4X4

\$200 FOOD 2 MEN, 6 DAYS

\$173.65 Invoice #3601 geologist hammers x2, scale

\$135.60 Invoice#3573 flagging tape, aluminum tags, tri scale,wf7 field book

\$146.90 Invoice #3602 sample bags 12 x 18

\$75.71 Invoice #3632 2x tri scale, graphite pencils

\$116.39 Invoice #3606 sample pads, pick

\$166.11 Invoice #3605 magnetic pencil, metal file, geotul

\$170.56 zephron oiler pants x2

\$225.98 action rubber boots x 2

\$45.95 orange spray paint x 4

\$68.98 100m measuring tape

\$44.44 metal ties "pickets" and chisel

\$400 survey Shetima Tekune 1 man @ \$ 400 per day may 13 2001 (geologist)

\$150 survey David M Lefort 1 man @ \$ 150 per day may 13 2011

\$200 food and accomidation Shetima Tekune

\$20 food David M Lefort

\$40 gasoline/truck

\$600 Report 3 days

**Total**

**\$5942.51**

## CERTIFICATION

I David M Lefort of Timmins on hereby certify that:

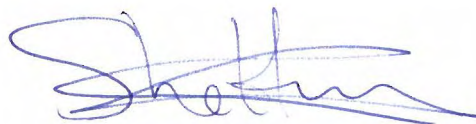
1. I am owner/operator of Hard Rock Exploration and have been in the exploration business since 2009
2. I am a narrow vein stope miner
3. I have been employed directly with, Kirkland Lake Gold inc, Dumas Mining Contracting and Engineering, Trewlany Mining and Exploration and Hard Rock Exploration
4. I have based conclusions and recommendations based on results of the field work performed as described in this report, and knowledge of the area.
5. I was present for and supervised all work performed as described in this report.
6. That all costs listed in the schedule of costs attached to this report are accurate and put towards the work performed in this report. All receipts, invoiced are located at the residence/office of David M Lefort/Hard Rock Exploration located at 573 Spooner dr Timmins On
7. All assay records, field samples, field books, signed sample pads are accurate as described and located at the residence/office of David M Lefort/Hard Rock Exploration located at 573 Spooner dr Timmins On
8. I am the author of this report

Dated may 15 at Timmins On



I Shetima Tekune of Sudbury Ontario, hereby certify that:

1. I hold a 4 year Bachelor of science (hons) degree from Laurentian University
2. I have been directly employed as a geologist for Xstrata Nickel, and Trelawney Mining and Exploration
3. I have based conclusions and recommendations, on my education and experience in geology and of the results of the work performed in the field as described in this report



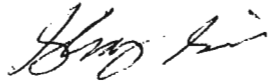
I Shettima Tekune of sudbury ontario was present and directly involved with the work performed on claim 4243964 and 4243969 on the dates described in this report

Dated 2011-05-16 at timmins on

A handwritten signature in blue ink, appearing to read 'Shettima Tekune', written over a faint horizontal line.

I Shay Simon of timmins ontario was present and directly involved with the line cutting on claim 4243964 and 4243969 on the dates described in this report

Dated 2011-05-16 at timmins on

A handwritten signature in black ink, appearing to read 'Shay Simon', written in a cursive style.