



32D04NW0041 W9480-00156 GAUTHIER

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SUDBURY CONTACT MINES LTD.

1992 DIAMOND DRILLING SUMMARY

REPORT

FOR

THE DIAMOND LAKE

PROJECT

PREPARED BY

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April 4, 1994

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Summary

Sudbury Contact Mines Ltd. is involved in the exploration of two project areas, consisting of 34,110 acres in McElroy, Hearst, McVittie, Gauthier, Arnold, and Katrine Townships in the Province of Ontario.

After detailed ground geophysics was extended on the Diamond Lake Project in April, 1992, a number of new targets were outlined for testing.

Diamond drilling followed in June and July and again in November and December for a total of 1725 metres of diamond drilling in 1992, of which 1573 metres are summarized in this report. The target objective of kimberlite was successfully intersected in three holes. Two holes intersected a north-south trending hypabysal olivine kimberlite dyke. While one hole interested a small volcaniclastic kimberlite breccia with the same hypabysal olivine kimberlite dyke interesting it.

Further ground geophysics in conjunction with mapping on the Moosehead group and RC (overburden) drilling over the entire property position is planned for 1993 on the Diamond Lake Project.

Diamond drilling will assess discoveries or new targets which are difficult to access with the RC Rig.

During the months April-August, 1992, a series of acquisitions were made as part of Sudbury Contact's expanded diamond exploration program. A total of 45 claims or 14,040 acres were staked in Arnold, Gauthier, Katrine, and McVittie as an addition to the Diamond Lake Project and called the Moosehead Property ("K" and "L").

These new acquisitions were mapped and prospected between June and October with the claim groups recommended for detailed Reverse Circulation Drilling.

In addition, a till sampling program is recommended to aid in further target selection, with follow-up ground geophysics over prospective targets.

Introduction

From 1986 to 1991, exploration programs have been focused on known auriferous targets along the Larder Lake Break and to identify new targets along other structures for drill testing utilizing the extensive data base acquired by Sudbury Contact Mines Ltd. since 1972 in the Larder Lake Gold Camp.

On March 30, 1992, Sudbury Contact Mines Ltd. issued a press release describing a recent diamondiferous kimberlite discovery west of Larder Lake, Ontario. The discovery of in-situ kimberlite occurrences in 1989 represents the successful fruition of exploration efforts launched by Sudbury Contact in 1987 with the acquisition of the Diamond Lake properties known to host gravel deposits containing kimberlite float boulders.

This report summarizes the 1992 diamond drilling program on the Diamond Lake Project.

Subsequently, the reporting of this discovery by local and national press helped to precipitate a major staking rush in Northern Ontario.

W. A. Hubacheck Consultants Ltd. has been retained exclusively by Sudbury Contact Mines Ltd. managing all of their exploration projects in the Larder Lake Mining Division since 1972.

CURRENT LAND DISPOSITION

The company is involved in the exploration of gold, and diamond properties within its Diamond Lake Project Area consisting of 267 claims, totalling 22,290 acres(as of January 1992); located primarily in McVittie, Hearst, Gauthier, McElroy, Katrine and Arnold Townships of the Larder Lake Mining Division, Ontario (Figures 2, 3 and 4).

The properties are strategically positioned covering portions of the "Kirkland-Larder Lake Fault Structure", which is generally associated with all the producing and former producing gold mines of the Kirkland Lake Gold Camp (Figure 1).

In addition, the properties are located in proximity to north-south structures(namely the Misema River Fault) which are possibly related to major zones of crustal weakness.

<u>Diamond Lake Area Project</u>	<u>Claims</u>	<u>Acres</u>
Diamond Lake Option	49	1960
Moosehead Lake (includes "L" & "K")	45	14040
Panthco - Mary Ann Option	51	2040
Lac-Gauthier - McVittie Option	122	<u>4880</u>
Sub Total:	267	22920

* Refer to figures for project location and access.

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Property and Project Area Description

a) **Diamond Lake Option**

The property consists of 49 claims totalling 1960 acres straddling the boundaries of "Gauthier and McVittie Townships south ends and the norther sections of Hearst and McElroy Townships, Larder Lake Mining Division, (Figures 2) and are numbered as follows:

L667832, L736729, L736730, L737731, L736732, L760496, L800064, L821928, L893730, L893731, L981875, L981993, L1111211, L1014694, L1045614, L1096947, L667833, L821910, L1151867, L1151868, L1151869, L892020, L892246, L917318, L919853, L1146425, L11515117, L919854, L919855, L919919, L982373, L919850, L919851, L919920, L9080319, L981385, L981386, L919921, L919922, L919923, L982757, L980387, L980395, L980396, L859823, L23463, L19280, L23462, L979566.

b) **Moosehead Property**

The property consists of 45 claims totalling 14040 acres in McVittie, Gauthier, Arnold, and Katrine Townships adjoining the Panthco Mary-Ann Option to the east, the Lac Gauthier option to the north, the Lac McVittie Option to the east and north, in the Larder Lake Mining Division, and are numbered as follows:

"K": L1186215(4), L1186214(16), L1186216(16), L1186217(15).
 "L": L1186260(12), L1186261(12), L1186259(1), L1180480(16),
 L1186222(2), L1186223(4), L1180460(16), L1180464(16), L1180513(8),
 L1186224(16), L1180479(16), L1186225(7), L1180477(16),
 L1180478(16), L1180457(16), L1180458(16), L1180508(9),
 L1180509(16), L1180510(3), L1180461(12), L1180462(2), L1180463(1),
 L1180459(16), L1180515(2), L1186227(12), L1186228(4), L1186229(4).

c) **Panthco Mary-Ann Option**

The property consists of 51 claims (patented and unpatented) with three licenses of occupation totalling 2040 acres straddling the boundary between Gauthier and McVittie Township, Larder Lake Mining Division, (Figure 2) and are numbered as follows:

Unpatented Claims: 599135, 599137, 599000-599003, 859153-859156, 859612-859615, 884525-884528, 884026-884028, 982246-982249

Patented Claims: JS-134, 7732, 7914, 8793-8796, 9430, 9611, 9698, 11787, 11788, 87, 19690, 34740, 22931, 12881-12883, 13142, 13497, 22930, 22932, 31366.

Licenses of Occupation: 10933 (re. claim 34740)
 10934 (re. claim 33696)
 10937 (re. claim 34739)

d) Lac Gauthier - McVittie Option

The property consists of 122 claims totalling 4,880 acres in two groups; one group in the Northern section of Gauthier Township and one group in the Central Western portion of McVittie Township in the Larder Lake Mining Division (Figure 2) and are numbered as follows:

McVittie Group: 799522-799524, 801128-801135, 801144-801151, 801153, 801166-801175.

Gauthier Group: 1110596, 1127475-1137479, 1145455, 800255-800278, 821260-821274, 821285, 8211288, 821290, 821351-821358, 894120-894127, 918200-918202, 918204, 918207-918216, 918219-918227, 918231-918232, 918234-918235.

Location and Access

a) Diamond Lake Option

The claims commonly adjoin the Gauthier / McVittie / Hearst / McElroy Township four corner junction and extend to the north and south of this junction straddling the township boundaries. The claim group lies 3 km west of Larder Lake along Highway 66, and is accessible to the north from the Fork Lake access road, and to the south via an old logging road. The Misema River, flanked on the east by a south treading esker ridge is the dominant geographic feature.

The Northwestern portion of the property can be accessed from the little Larder-Lake Road from the Village of Dobie crossing the Ontario Hydro line two miles west of claim 1111211.

b) Moosehead Property

The claims are accessible as in the Diamond Lake Property claims via the Fork Lake road north to the Hydro line and 2 km east to the southwest corner of the claim group. Also via Hwy 672 to the Howard Lake Road to reach the north western end of the group ("K") or via the Larder Station Haulage Road to the North eastern end of the claim group, or via the Beaverhouse Mine Road and then north on the Beaverhouse Native Band winter road to Misema Lake.

c) Panthco Mary-Ann Option

The property is situated in the east-central part of Gauthier Township, and the west-central part of adjoining McVittie Township about 4 km west of Larder Lake, Ontario.

The property is easily reached by car. The gravel road to the Old Upper Beaver Mine provides convenient access to the western and northern portion of the property from Highway 66. The Fork Lake Road turn off from Highway 66 follows the east bank of the Misema River and provides access to the eastern portion of the property.

The hydro electric transmission line through the southern part of the property serves as a walking trail to the southern portions of the property. The property is sandwiched between the Lac Gauthier Option to the North and the Lac McVittie Option and the Diamond Lake Option to the South and the Moosehead Property to the east.

d) Lac Gauthier-McVittie Option

This property is divided into two groups of claims. The largest group of 92 claims lies at the North end of Gauthier Township adjoining the North end of the Panthco-Mary-Ann Option.

The Eastern claims in the Gauthier group are accessible via the Dobie Road which runs NW from Highway 66, approximately 20 km east of Kirkland Lake. The western claims in the Gauthier group are accessible via the Esker Park Road and an unmaintained logging road.

The second group of claims is the Lac-McVittie group situated on the North and East boundary of the Diamond Lake group and the west boundary of McVittie Township extending 8 claim widths to the east. They are bounded to the north by the Panthco-Mary-Ann Option, the Moosehead Property and the Hydro line. Access is similar to the Diamond Lake Option, also the hydro line provides access to the north boundary of the group.

Past Work by Sudbury Contact

The Diamond Lake Properties straddle part of the Larder Lake Break formerly known as the Beauregard and Olivet Properties, as well as a north/south structure which extends north from the Larder Lake Break to the North end of Gauthier Township passing to the west of the Upper Beaver Minesite presently being explored by Royal Oak Mines Ltd. The properties cover the Timiskaming sediments, the Kinojevis and Gauthier Volcanic Group and the Larder Lake Group hosting the Kirkland-Larder Lake Break.

In 1987, the company began gold and diamond exploration on the newly acquired Larder Townsite and Diamond Lake Properties directed by its own airborne survey which outlined unusual airborne anomalies. The occurrence of kimberlite float boulders in gravel pits on the Larder Townsite Property also led encouragement to undertake a major reverse circulation (RC) drilling program on these properties.

In 1989, a followup reverse circulation (R.C.) and diamond drilling program was initiated to investigate airborne magnetic gradients and basal till anomalies in the vicinity of a linear magnetic gradient contour-flanking the east side of the Misema River (KLIP basal Till Study - 1984).

RC - Drill Hole FL-89-2, located on Claim L12295 successfully penetrated thick esker deposits in excess of 57 metres before entering bedrock.

An "exotic" ultramafic chip sample was returned containing an assemblage of clasts containing phlogopite mica, garnets, and magnetic sludge.

Diamond drilling in 1989 confirmed the presence of a kimberlite dyke structure striking north/south over a presumed 1700 metre length varying in widths ranging from a few metres to 100 metres. In June 1990, a kimberlite pipe (Diamond Lake Pipe No. 1) was discovered on the northern portion of the dyke structure.

In the fall of 1989, a drill hole tested the magnetic gradient feature outlined in the 1987 Airborne Magnetic/VLF-EM Survey approximately 75 metres North of RC FL-89-2 on Claim L19280. Hole FL-89-4 successfully intersected a six metre section of serpentine ultramafic dyke possibly of "Kimberlitic origin". The serpentized chloritic matrix contained phlogopite, olivine and lesser amounts of garnet, magnetite and ilmenite.

In June of 1990, a drill hole FL-90-5 was collared approximately 300 metres north of FL-89-4. This drill hole returned a cored interval consisting of a serpentized ultramafic diatreme breccia to a depth of 169.77 metres which was later confirmed as a kimberlite returning favourable heavy mineral analyses.

Heavy mineral processing of samples taken from the 1989 RC program and the 1990 diamond drilling program yielded favourable results. These analyses indicated that the dyke/pipe contained kimberlitic indicator minerals.

Based on the results of the 1990 program two option agreements were signed in 1991 involving 173 claims (6920 acres); one agreement with Panthco Resources Inc.(July 1) and the other with Lac Minerals Ltd.(September 1).

During February of 1991 28 kilometres of total field magnetics and VLF-EM were completed by JVX Ltd. This survey was performed at 100 metre line spacing with an E-W orientation over the Diamond Lake Option outlining the kimberlite, and it outlined local structures as well (Webster, B.; 1991).

In January 1991, a fixed wing Magnetic VLF Survey was commissioned to fly a six kilometre by 12 kilometre grid area totalling 838 line kilometres of flying(C. Q. Barrie, 1991).

In November and December of 1991 JVX Ltd. was commissioned to extend the survey completed in February 1991 on the Diamond Lake Option to cover the Panthco Mary-Ann Option and the Lac-McVittie Option both to the North and to tighten line spacing to 50 metres over selected areas and 100 metre line spacing everywhere. A total of 36.2 line kilometres were cut with Magnetic and VLF Surveys over the entire grid and gravity over selected lines (Vickers, A. 1991).

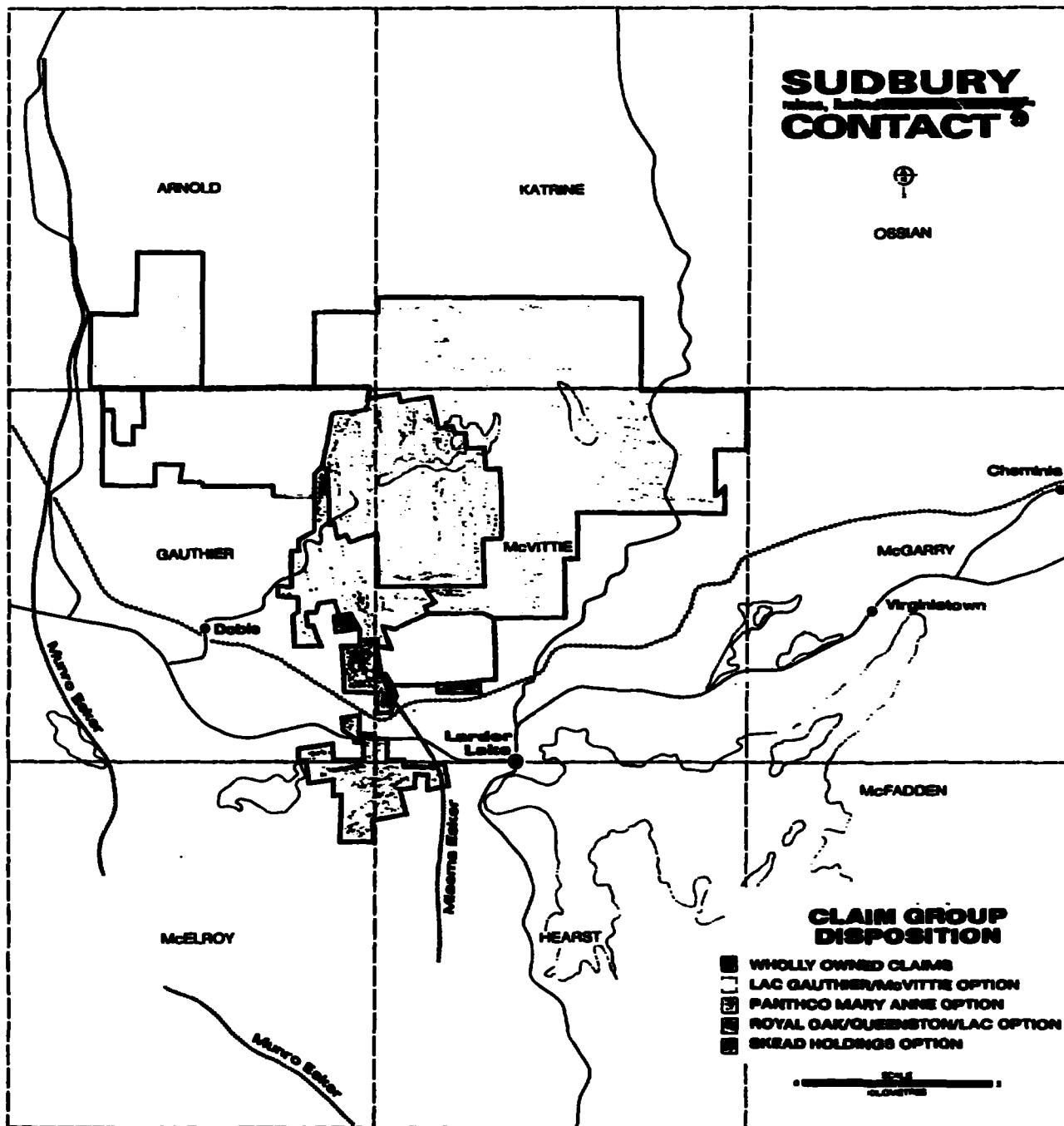
In the summer of 1991 a program of geological mapping, past work study, geophysical anomaly ground checking, and compilation was undertaken on the property group(T. Hughes, 1991)

A total of 1681 metres of diamond drilling involving nine drill holes were completed on the Diamond Lake Project area in 1991(Christie, D., 1992)

In 1991, a program consisting of ground geophysical surveys followed by 1681 metres of diamond drilling was completed. The target objective of kimberlitic rock was successfully intersected in four of the nine drill holes, with two holes intersecting kimberlite to a vertical depth exceeding 250 metres, now referred to as the "Diamond Lake Pipe No.1". Indicator mineral analysis and diamond fusion work has been conducted on 14 samples.

Fourteen microdiamonds have been recovered from 14 samples retrieved from three drill holes testing the Diamond Lake Pipe No. 1 to vertical depths ranging from 200 to 350 metres. Forty-three per cent of the microdiamonds are reported to be gem quality. in addition, several G10 garnets were identified by microprobe and SEM analysis.

DIAMOND LAKE PROJECT AREA



PROJECT MANAGEMENT : W.A.HUBACHECK CONSULTANTS LTD.
TORONTO,ONTARIO,CANADA

THE 1992 DIAMOND DRILLING

A diamond drilling program was undertaken on Sudbury Contact's Diamond Lake Project during the period June 1, 1992 to July 9, 1992 and from November 22 to December 6, 1992. The primary exploration target was kimberlite in the search for an economic diamond deposit, following the discovery of the Diamond Lake Pipe #1 which was made in 1990.

A total of 1725 metres(5658 feet) was completed in twelve holes, six holes on the Panthco JV/Option amounting to 730.1 metres and one hole on the Lac McVittie Option totalling 181.1 metres and five holes on the Diamond Lake(Skead) Option amounting to 813.65 metres.

The following summaries are referenced from the geophysical grid which sits on most of the property(Vickers, A.; August 1992), or according to claim posts.

All drill core is being stored in racks at the Sudbury Contact Core shack in Cobalt Ontario.

DIAMOND DRILL HOLE SUMMARIESDDH FLP-92-17

LOCATION: Panthco Mary-Ann Option
Claim: L 34740
L24+00N 1+30W
AZIMUTH: 0° **Dip:** -90°
Length: 59.4 metres

TARGET: Mag high with west flanking VLF

SUMMARY: A total of 40.2 metres of overburden was intersected before intersecting hematized silicified lapilli tuff to 44.45 metres, followed by an intermediate to mafic chloritic lapilli tuff to the end of the hole at 59.4 metres. Magnetic susceptibility readings between 11 and 26×10^{-3} SI Units throughout the hole, therefore explaining the mag high target.

DDH FLP-92-18

LOCATION: Panthco Mary-Ann Option
Claim: L 34739
L20+93N 1+80W
AZIMUTH: 90° **DIP:** -70°
LENGTH: 161 metres

TARGET: Mag low and VLF(Misema River Fault)

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SUMMARY: A total of 90.5 metres of overburden was intersected, followed by a chloritic epidotized mafic tuff to 101.4 metres, chloritic blocky laminated agglomeratic tuff to 108.13 metres, a siliceous intermediate lapilli tuff to 121.43 metres, a hematized chloritized fault altered lapilli tuff to 124.31 metres (leave mag low and magnetic susceptibility readings $>10 \times 10^{-3}$ for the rest of the hole, prior to this point the readings were 0 for the most part), the Misema River fault is intersected from 123.44-123.50 metres, a quartz feldspar chlorite hematized tuff is intersected to 150.78 metres, followed by a chlorite lapilli mafic tuff with debris flow textures to the end of the hole at 170.7 metres. The mag low and VLF anomaly have been completely explained.

DDH FLP-92-19

LOCATION: Panthco Mary-Ann Option
Claim: L 31367
L25+00N 0+15E
AZIMUTH: 90° **DIP:** -75°
LENGTH: 151.2 METRES

TARGET: Mag low at the intersection of two structures and corresponding VLF anomalies.

SUMMARY: A total of 40.8 metres of overburden was intersected followed by chlorite amphibole lapilli tuff to the end of the hole at 151.2 metres. The magnetic susceptibility readings were between $5-20 \times 10^{-3}$ between 40.8 metres and 91 metres after which the readings fell to between 0 and 1×10^{-3} , therefore explaining the mag low target as a change in magnetite content within one unit.

DDH FLP-92-21

LOCATION: Panthco Mary-Ann OPTION
Claim: L 859153
L34+75N 2+00W
AZIMUTH: 270° **DIP:** -75°
LENGTH: 144.8 METRES

TARGET: Mag high linear trend, gravity low, and the Misema River Fault.

SUMMARY: A total of 11.3 metres of overburden was intersected followed by rhyolitic lapilli-bomb tuff (agglomerate) to 56.65 metres, an intermediate lapilli-bomb tuff with epidote & carbonate and sericite alteration to 75.7 metres, a massive basaltic flow to 77 metres, a massive rhyolite to 78.52 metres with minor epidote alteration tr-1% chalcopyrite in CaCO_3 veins and amygdules, a mafic diabasic intrusive to 139.95 metres (magnetic susceptibility = $20-30 \times 10^{-3}$) with a fault zone intersected from 111.42-136.39 metres,

the hole ends in intermediate to felsic lapilli-bomb tuff(agglomeratic) at 144.8 metres.

DDH FLL-92-22

LOCATION: Diamond Lake Option

Claim: L 799524 & L 821928

L11+25.5 N 0+10 E

AZIMUTH: 270° DIP: -50°

LENGTH: 182.9 METRES

(15 M on the Lac Property(overburden) and 167.9 metres on the Skead Property)

TARGET: Mag low, VLF conductor, and a gravity low.

SUMMARY: A total of 40.2 metres of overburden was intersected before cutting trachytic-chloritic-lapilli tuff(carbonated) to 42.51 metres, with fault gouge from 42.25-42.45 metres, followed by mottled trachytic tuffaceous fragmental to 49.4 metres, fine-medium grained mafic diabasic intrusive to 86.9 metres, brecciated altered blocky mafic to intermediate tuff to 109.62 metres with a narrow diabase dykelet included and low magnetic susceptibility for the most part, a hematized chloritic mafic lapilli tuff to 112.5 metres(MS<.001 SI units), this is in turn followed by a very blocky mafic intrusive with MS=0.0067 SI units to 117.13 metres, a silicified fault breccia to 120.68 metres, and the hole ends at 182.9 metres in a brecciated lapilli intermediate to mafic tuff(hematized and trachytic), MS= 0 SI units at 182.5 metres.

DDH FL-92-23

LOCATION: Diamond Lake Option

Claim: L 821910

L0+54 S 263 E

AZIMUTH: 270° DIP: -60°

LENGTH: 161.6 METRES

TARGET: Mag high and to cut beneath overburden drill hole FL-89-2.

SUMMARY: A total of 55.2 metres of overburden was intersected followed by interbedded greywacke, arkose, and siltstone to 106.6 metres with increased chloritization at the lower contact, then a multi-phase kimberlite was intersected from 106.6 to 134.84 metres which included mostly "heterolithic volcaniclastic kimberlite breccia" with varying compositions intersected by later "hypabyssal kimberlite and hypabyssal kimberlite breccias". The kimberlite was followed by a sericitized chloritized siltstone/greywacke to 140.97 metres with increased chlorite alteration at its upper contact. A magnetic (MS=20x10⁻³ SI units) diabasic intrusion was intersected to the end of the hole at 161.6 metres.

DDH FLP-92-24

LOCATION: Panthco Mary-Ann Option
Claim: L 884026
L32+50N 9+50W
AZIMUTH: 0° **DIP:** -90°
LENGTH: 62.5 METRES

TARGET: Weak mag high, gravity low, and topographic depression.

SUMMARY: A total of 43.35 metres of overburden, followed by a oxidized weathered carbonated mafic fragmental lapilli tuff to 49.4 metres (very soft rusty beige colour), the hole ended in a carbonated lapilli-bomb fragmental mafic tuff(heterolithic) at 62.5 metres. This sufficiently explained the target.

DDH FLL 92-25

Location: Lac McVittie Option
Claim: L801144
BL 0+00 L6+05N
Azimuth: 90° Dip: -72°
Length: 181.1 metres

Target: Magnetic high linear and Resistivity Low.

Summary: A total of 27.59 metres of overburden was intersected followed by potassic altered greywacke to conglomerate with thin sections of arkosic sandstone and sheared greywacke/conglomerate to 100.8 metres. A narrow unit of silicified brecciated sediment with talcose sections was intersected to 102.32 metres. This was followed by a section of greywacke/conglomerate with sericitic alteration to the end of the hole at 181m. Some clasts in the greywacke/conglomerate are of fuchsite, Fe-Carbonate or talc-chlorite composition, indicating a Larder Lake Group source to these Temiskaming group rocks.

DDH FL-92-26

Location: Diamond Lake Option
Claim L19280
L0+93N 1+87.5E
Azimuth: 330° Dip: -60°
Length: 168.70 metres

Target: Magnetic High Linear.

Summary: A total of 66.08 metres of overburden was intersected followed by strongly brecciated greywacke to 107.53 metres. A chloritic clay fault gouge and chloritized carbonated altered

breccia zone (Misema River Fault) was intersected to 108.5 metres. A series of blocky brecciated greywacke were intersected to 134.04 metres with a contact aureole in the greywacke from 133.56-133.04 metres. A thin hypabysal kimberlite breccia dyke was intersected to 134.39 followed by sericitized CaCO₃, chloritized greywacke to 143.82 metres which is strongly contorted. A hypabysal olivine kimberlite dyke is intersected to 150.40 metres. This in turn is followed by a diabase mafic dyke (Matachewan) to 168.70 metres with both the kimberlite and the diabase explaining the magnetic high.

DDH FL-92-27-B

Location: Diamond Lake Option

Claim: L. 82 1/4 W.

L+00S 2+62E

Azimuth: 270° Dip: -65°

Length: 113.70

Target: Magnetic High and Resistivity Low.

Summary: A total of 70.25 metres of overburden was intersected followed by a very blocky siltstone (Misema Fault) to 86.12m which was in turn followed by a hypabysal facies kimberlite breccia dyke to 86.50 meters followed by a hypabysal olivine kimberlite to 86.80 followed by hypabysal volcaniclastic kimberlite breccia to 87.84 metres. The kimberlite was followed by siltstone breccia to 88.17 and quartz, sericite altered siltstone/greywacke to 89.34 metres. A carbonatized crackle brecciated chill zone is present on the upper contact of an altered diabase dyke which goes to the end of the hole at 113.7 metres.

Diamond Lake Project Exploration Results

The drilling on the Panthco Property wasn't very fruitful as far as kimberlitic targets are concerned. Other potential kimberlite targets on the Panthco Property will be assessed in the near future.

The drilling on the Skead Property included only two holes but was much more fruitful than the Panthco drilling. A multi phase Heterolithic Volcaniclastic Kimberlite Breccia(Diamond Lake Pipe#2) with younger Hypabysal Olivine Kimberlite and Kimberlite Breccia dykes intruding it, intersected in DDH FL-92-23 over a true width of 17 metres and a core length of 28.24 metres. Both FL-92-26 and FL-92-27A intersected narrow sections of a North South trending younger Hypabysal Olivine Kimberlite Dyke which cuts both the Diamond Lake Pipe #2(blow) and the Diamond Lake Pipe #1.

The Misema River Fault was found in close proximity to the east contact of the kimberlite(in the Greywacke) found in all three kimberlite intersections described above, and is found to be a very wide brittle fault with some ductile deformation. It is thought that the kimberlite dykes have intruded right along the fault. on the west contact of the kimberlite a diabase dyke was intersected displaying brittle deformation over the first 8 metres, which is likely an expression of the Misema River Fault. This brings the conclusion that the Misema River Fault is an old fault that the Diabase took advantage of and then was reactivated and exploited by the kimberlite at a much later date.

The 63 kg. sample taken from the Kimberlite found in FL-92-23, Diamond Lake Pipe #2(blow), did not return any micro-diamonds, however the indicator mineral analysis is similar to the main pipe, and the sample was small, and therefore not a true representation of the possible diamond content.

Recommendations

Additional linecutting and geophysics is recommended on extensions of the original Diamond Lake grid; eastward towards Binney Lake on the Lac Option; westwards to Little Larder Lake on the Panthco Option, and southwards on the Skead Option.

A drilling program will be implemented to test new targets which have been defined by ground magnetics and gradient IP.

In addition, a large Reverse Circulation Overburden Drilling program is recommended to cover the entire Diamond Lake Project Area, testing some anomalies but with the main purpose to explore the glacial till for kimberlite indicator mineral trains.

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CERTIFICATE

I, David W. Christie, of the City of Toronto, in the Province of Ontario, Canada, do hereby certify that:

- (1) I am an Exploration Geologist, residing at 104 Douglas Avenue, Toronto, Ontario, M4M 1G6 employed by W.A. Hubacheck Consultants Ltd., 141 Adelaide St. West, Suite 603, Toronto, Ont.
- (2) I am a graduate of McMaster University and received my Bachelor of Science degree in Geology in 1986, and have been practising my profession as an Exploration Geologist continuously since graduation.
- (3) I am a Member of the Canadian Institute of Mining and Metallurgy - National, Kirkland Lake and Toronto Branch, the Prospectors and Developers Association of Canada, and the Association of Quebec Prospectors. Presently an Examinee Candidate to become a P.Geol with APEGGA and NAPEGG.
- (4) This report is based on personal examination of the properties since 1987 and supervision and implementation of work carried out on the properties on behalf of Sudbury Contact Mines Ltd. during the 1992 calendar year.
- (5) I have no personal interest, either directly or indirectly in the properties or securities of Sudbury Contact Mines Ltd.

Toronto, Ontario,
April 4, 1994.

DAVID W. CHRISTIE, B.Sc.

APPENDIX "A"
CERTIFIED STATEMENT OF EXPENDITURES

W. A. HUBACHECK CONSULTANTS LTD.

APPENDIX "B"
DIAMOND LAKE DIAMOND DRILL LOGS

W. A. HUBACHECK CONSULTANTS LTD.

GRAPHIC
LOG

LITHOLOGY
STRUCTURE
MINERALIZATION

DIAMOND DRILL LOG

Conrad C. Hubachek
W.A. HUBACHEK CONSULTANTS LTD.

TORONTO ONTARIO CANADA

COMPANY	Sudbury Contact Mines	NTS	32 D/4	CORE SIZE	NQ	HOLE NO.	DIP	AZIMUTH	HOLE NO.	FLP	92-17 PAGE 1	2
PROPERTY	Panthco JV (193)	DISTRICT	Larder Lake	CONTRACTOR	Heath & Sherwood	30.5	88°		COLLARAZIMUTH	0°		
	June 4, 1992		Gauthier	DATE LOADED	June 9, 1992	59.4	87°	358°	COLLAR DIP	(-90°)		
COMMENCED		TWP /LAT LONG		LOGGED BY	D.W. Christie				ELEVATION			
COMPLETED	June 7, 1992	CLAIM	L34740	DDH COMMENTS					LENGTH	59.4 metres		
OBJECTIVE	Mag high with west	CO-ORDINATES	L24-H00N 1+30W									
flanking VLF												

INTERVAL	M [] ft []	FROM	TO	DEPTH	LITHO TYPE	DESCRIPTION	SAMPLE	SAMPLE	SAMPLE	ASSAY	
							No.	FROM	TO	LENGTH	% BUL.
0	40.2	Overburden	Boulders, Gravel, and sand - all casing was removed.								
40.2	44.45	95	90	Brick Red (dk) colour, fn. Grained matrix	Hematized Silicified Tuff	1mm to 1cm (ave. 2mm) lapilli clasts of fn. Grained chloritic mafic volcanic (green-dk) will dispersed approximately 15% - clasts are angular to rounded, also feldspathic clasts <1cm <5%					
-43.5-44.0				-43.5-44.0 is a blocky section of 2-3cm pieces of rock, otherwise unit is very competent.							
				Qts CaCO ₃ veinlets (<0.5cm) distributed throughout with intense hematization alteration halos, often associated with them							
				Veins are at 0°-70° to CA, with a common angle being 30° to CA							
				No V.S., no foliation visible							
				Slightly magnetic to moderately magnetic							
				Med. grey colour, fn. Grained with 5-10x 1m to 5mm lapilli chloritic clasts, and the odd pebble sized clast of chlorite (<2cm) (ie 51.76m) - often elongated parallel to foliation.							
				Foliation is weak to strong and is marked by rose to white coloured qtz- CaCO ₃ veinlets at 40° to 35° to CA							
				Approximately 5° Qtz - CaCO ₃ veinlets (<2mm) with odd one up to 1cm							
				Locally there is light-dark banding where light coloured bands are rose with CaCO ₃ enrichment							
				Veins often have pink halos							
				-49.01-49.3 is a qtz CaCO ₃ chlorite sericitic vein - 70% qtz, with the other constituents interspersed within the vein in clumps.							
				Local areas of intense white CaCO ₃ veinlets (<2mm) at 60-75° to CA with 1cm spacing (ie 54.60-56.9 metres							
				Also epidotized feldspar lapilli (<3mm) can be seen locally.							

DIAMOND DRILL LOG

LITHOLOGY
STRUCTURE
MINERALIZATION
ALTERATION

J. A. Christie
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COMPANY	Sudbury Contact Mines NTS	31 D/4	CORE SIZE	NQ	CONTRACTOR	Heath & Sherwood	SURVEY DEPTH	DIP	AZIMUTH	HOLE NO.	FLP 92-18 PAGE 14
PROPERTY	Panthco Mary Ann - 193 District	Larder Lake					30.5	64° 30'	COLLARAZIMUTH	90°	
COMMENCED	June 7, 1992	TWP 7/LAT LONG Gauthier Twp.	DATE LOGGED	June 12, 1992	61m	71° 45'			COLLARDEP	-70°	
COMPLETED	June 11, 1992	CLAIM L34739	LOGGED BY	D.W. Christie					ELEVATION		
OBJECTIVE	Mag low/VLP	CO-ORDINATES L20+93N	DRILL COMMENTS		123.8	73° 45'	108.5		LENGTH	161 m	
MISSISSAUGA RIVER FAULT	1+80W										

INTERVAL

FROM TO Q

LITHOTYPE

ASSAYS

SAMPLE No

FROM TO LENGTH % SUL

DESCRIPTION

GEOLLOGY (INCLUDE GRAIN SIZE, FOLIATION, MINERALS, ETC.)

0 90.5 Overburden Mostly sand, some hard clay, and some gravel/boulder beds casing removed.

90.5 101.4 80 75 Chloritic Epidotised matrix Tuff Local areas of strong epidotisation associated with qtz. CaCO₃ veins and veinlets (<2cm, ave. 5mm) at 20-70° to the core axis

Fn. medium grained (<2mm) with a diabasic texture, however grains have a tuffaceous appearance, and rock is non magnetic (Ms=0, except at 99.4 where Ms=4.75 x10⁻³) Moderately soft to hard.

Fracture surfaces are stained with hematite (brown red colour), hematite alteration is also present in the matrix locally.

96.72-98.11 Very blocky section with fragments <5cm, ave. <2cm and some fault gouge.

Fining down hole.

rr pyrite, disseminated <1mm

constrictions on fracture surfaces which are convoluted, although a more consistent fracture is at 70° to CA

101.4 108.13 70 40 Chloritic fine tuff v. blocky laminated Agglomerate

Brown grey green Fine grained (<1mm)

blocky from 101.4-07.62 m, gradual upper and lower contacts, fragments 2cm - 10cm, ave. 3cm Moderately soft

Very soft cherry looking chloritic clasts which are well rounded and up to 5cm in diameter 3%

Poliated at 70° to CA

Tr Py

Epidote boudles parallel to foliation and CaCO₃, Qtz veins - white to rose coloured - also epidote halos on veins locally, Strongly fractured

DIAMOND DRILL LOG

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TORONTO, ONTARIO, CANADA
MAY 100 DRILLING

COMPANY	NTS	DISTRICT	CLAIM	CO-ORDINATES	CORE SIZE	SURVEY DEPTH	DIP	AZIMUTH	HOLE NO. FLP 92-18 PAGE 2 4
					CONTRACTOR	DATE LOGGED	LOGGED BY	COLLAR AZIMUTH	
		TWP & LAT LONG						COLLAR DIP	
					ELEVATION				
					LENGTH				

INTERVAL	M <input type="checkbox"/> F <input checked="" type="checkbox"/> C <input type="checkbox"/> S <input type="checkbox"/> P	FROM	TO	LITHOTYPE	DESCRIPTION	SAMPLE				ASSAYS
						NO.	FROM	TO	LENGTH	
108.13 121.43 99 95	Siliceous Intermediate Lapilli Tuff	99	95	99	Grey to grey green, fine grained matrix with feldspathic and dark coloured lapilli (<5mm) with often an elongation to a weak foliation (trachytic feature)					
					-10% dark clasts - chlorite - Pyroxene-Amphibole					
					-5% Feldspathic clasts - K-Spar, rock is fairly hard -					
					sillicious content					
					tr py					
					Hematite alteration locally, especially associated with					
					Qtz - CaCO ₃ veins, which are present throughout as veins					
					and as crackle veinlets, often parallel to foliation					
					varying from 10° - 30° to CA					
					Foliation at 70° to CA at 111.6, 60° to 120.4m poorly					
					to moderately developed					
					Veining often has bleached area associated with it.					
					Magnetic intensity has increased to 7 x 10 ⁻³ SI units.					
121.43 123.34		121.43	123.34		Brown to brown red & green					
					Hematized - carbonated chloritized lapilli tuff:					
					Dark green lapilli (<5mm) aligned to foliation at 50° to CA.					
					Lapilli Tuff					
					Rock is much softer than above.					
					Crackle veinlets are more intense (5%) of white to rose					
					Qtz CaCO ₃ at a variety of angles					
					-try py dials, fine					
					Large Qtz. CaCO ₃ vein brecciation for last 25cm (75%					
					Qtz - CaCO ₃) rose coloured					
					123.44-50 is fault gouge of a dark green chloritic matter					
					with plenty of CaCO ₃ within it.					
					123.5-124.37 is a sericitic-chlorite altered lapilli tuff					
					with a lime green colour (slightly grey) with py/gmatic					
					Qtz veins of a grey pink colour.					
					Entire unit is non magnetic (0.58-0.60 10 ⁻³ SI units)					

Fault #

123.44-50 is fault gouge of a dark green chloritic matter with plenty of CaCO₃ within it.

123.5-124.37 is a sericitic-chlorite altered lapilli tuff with a lime green colour (slightly grey) with py/gmatic Qtz veins of a grey pink colour.

Entire unit is non magnetic (0.58-0.60 10⁻³ SI units)

DIAMOND DRILL LOG

SCALIC
GRAPHIC
1000
MINERALOGY
STRUCTURE
ALTERATION
INTERVAL

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TORONTO, ONTARIO, CANADA

COMPANY	PROPERTY	COMMENCED	COMPLETED	OBJECTIVE	INTERVAL	FROM	TO	LITHOTYPE	DESCRIPTION	SURVEY DEPTH	DIP	AZIMUTH	HOLE NO.	F.I.P. 92-18 PAGE 3 4
NFB	DISTRICT	TWP /LAT LONG	CLAIM	CO-ORDINATES					CORE SIZE				COLLAR AZIMUTH	
									CONTRACTOR				COLLAR DIP	
									DATE LOGGED				ELEVATION	
									LOGGED BY				LENGTH	
									DOH COMMENTS					

ASSAYS

SAMPLE NO	FROM	TO	LENGTH	% SUL

124.37150.7899 95 QTZ
 Feldspar
 Chlorite
 Hematized
 Tuff

Grey green to brick red (majority)
 Sharp upper and lower contact
 15-20% feldspar clasts (plagioclastes)

5-10% Qtz clasts
 10-15% chlorite - amph - pyroxene clasts
 Clasts are euhedral to anededral with abraded edges, locally
 chlorite/amph/PX clasts show alignment to foliation
 Clasts < 2mm, matrix is fine grained to v. fine grained
 Weakly developed foliation is at 65-70° to CA
 2-5% Qtz CaCO₃ veins and veinlets (1mm-2cm) rose to white
 grey often with alteration halos (bleaching) around larger
 ones. Veins at 30-90° to CA, most often at 70° to CA.
 Local hematite near end of unit
 Tr py, magnetic 3-21x10⁻³ SI units especially strongest in
 hematized areas.

150.78170.79 99 98 Chloritic
 lapilli
 mafic tuff
 Agglomerate
 (debris flow)

Green to rose green
 Fine grained matrix with elongated chloritic lapilli 10-15%
 large clasts are of some composition matrix which makes it
 look like a debris flow or slump deposit.
 Clasts are angular to rounded up to 5cm in size and
 are < 5%

Moderate chlorite and sericitic alteration, wispy nature
 surrounding clasts
 Often altered sericitic/chlorite rims around clasts.
 Fracture surfaces have hematite and CaCO₃ on them.
 2% CaCO₃ Qtz veining at 10-70° to CA usually pink rose to
 white - smaller veins are white larger ones rose
 Moderate local epidote alteration
 Very homogeneous rock.

Chlorite wispy veinlets or fracture fills (<5mm)
 Foliation at 40° to CA at 15° at 40° to CA at 160 and
 50° to CA at 166.5°

DIAMOND DRILL LOG

SCALE
GRAPHIC
LOG
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STRUCTURE
LITHOLOGY
MINERALIZATION

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TORONTO ONTARIO, CANADA

Hole No. FLP 92-18 PAGE 4 4

COMPANY	NTS	CORE SIZE	SURVEY	DIP	AZIMUTH	HOLE NO.	COLLAT AZIMUTH
PROPERTY	DISTRICT	CONTRACTOR	DEPTH			FLP 92-18	
COMMENCED	TWP / LAT LONG	DATE LOGGED					COLLAR DIP
COMPLETED	CLAIM	LOGGED BY					ELEVATION
OBJECTIVE	CO ORDINATES	DDH COMMENTS					LENUTI

ASSAY'S

INTERVAL	FROM	TO	LITHOTYPE	DESCRIPTION	SAMPLE
M	ft	□	%	□	NO
				GEOLOGY (colour/grain size/tenue/mineral alteration etc.)	FROM
					TO
					LENGTH
					% SUL

Clast content varies from 50%, clast supported, to 5%, matrix supported (mostly)
Upper contact is a qtz-CaCO₃-chlorite vein from 150.78-150.91
very sheared and messed up looking
E.O.H.

170.7

Magnetic Susceptibility Readings (X10 ⁻³ SI Units)					
METRES	MS	Metres			
90.7	0	123.5	149.5	111.4	
93.0	0	123.9	0	150.91	2.95
94.0	0	124.45	14.2	152.5	20.3
95.5	0	126.5	5.43	154.2	18.3
96.5	0	129.0	12.3	155.7	11.1
98.2	0	129.5	9.96	157.3	22.2
99.4	4.75	131.0	0.09	158.8	9.0
101	0.96	131.7	10.5	160.0	8.82
102	0	133.5	14.6	161.5	0.80
103.5	0	135	9.27	163.0	8.54
105.8	0	136.5	2.66	164.5	9.46
107	0	138	6.44	166.0	9.50
109	7.82	139.5	10.4	167.5	17.4
110.5	16.5	141	4.29	169.0	51.1
113	8.57	142	17.8	170.5	17.8
117.7	6.32	143.5	17.1		
119	8.33	144.1	13.2		
120.5	4.94	146.5	23.7		
121.7	0.58	148.0	21.2		

DIAMOND DRILL LOG

STRUCTURE
ULTRASOUND
ALTERATION
MINERALIZATION

COMPANY
PROPERTY
COMMENCED
COMPLETED
OBJECTIVE

NTS
DISTRICT
TWP /LAT LONG
CLAIM
CO-ORDINATES

CORE SIZE
CONTRACTOR
DATE LOGGED
LOGGED BY
DBH COMMENTS

SURVEY
DEPTH
DIP
AZIMUTH
COLLAR AZIMUTH
COLLAR DIP
ELEVATION
LENGTH

INTERVAL
M [] F [] REC []
FROM TO

LITHOTYPE
#

ASSAY
SAMPLE
NO FROM TO LENGTH % BUL

DESCRIPTION
GEOLOGY (colour/grain size texture/minerals alteration etc.)
Magnetic Susceptibility Readings
X10⁻³ SI Units

Meterage	MS	Meterage	MS
41.5	15.3	68.7	10.9
43	14.1	70	6.51
44.5	15.6	71.7	13.0
46	5.30	73.2	12.4
47.6	11.2	74.7	19.3
49	11.9	76.2	20.7
50.6	10.3	77.3	27.1
52	5.58	78.7	19.6
53.5	5.01	80.5	9.30
55	9.83	81.9	19.3
56.5	5.88	83.5	8.05
57.2	4.44	84.5	7.65
59	5.26	86	4.88
60.5	4.95	87.5	4.24
62	4.75	89	5.77
63	2.16	90.2	5.52
64.5	1.51	91.7	0.89
66	4.75	93	0.10
67.5	10	94.5	0.09

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TORONTO, ONTARIO, CANADA

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DIAMOND DRILL LOG

SCALI
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LITHOLOGY
MINERALIZATION

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TORONTO, ONTARIO CANADA

COMPANY	Sudbury Contact Mines NTS	31 D/4	CORE SIZE	NQ	DEPTH	DIP	AZIMUTH	HOLE NO.	FLP 92-21 PAGE 1	5
PROPERTY	Panthco (193)	DISTRICT	Larder Lake	CONTRACTOR	Heath & Sherwood	27.4	73°	COLLAR AZIMUTH	270	
COMMENCED	June 14, 1992	TWP / LAT LONG	Gauthier Twp.	DATE LOADED	June 20, 1992	61m	73	COLLAR DIP	-75°	
COMPLETED	June 17, 1992	CLAIM	L859133	OPENED BY	D.W. Christie	81.1m	72	ELEVATION		
OBJECTIVE	Mag high trend	COORDINATES	L3475N	DDH COMMENTS		LENGTH				144.8
	(MISSISSA RIVER FAULT)		2+00W							144.8
				DESCRIPTION		SAMPLE				
				GEOL OGY (colour, green streaks, fine-grained, alteration etc.)		NO.	FROM	TO	LENGTH	% BUL

INTERVAL	M	E	Ft	From	To	Core	Lithotype			
0				11.3	Overburden		Boulders and Clay	Casing Removed		
11.3	56.65	99	90	Rhyolitic	Green-Yellow-Grey	(light)				
				Lapilli-	Fine grained siliceous matrix					
				bomb Tuff	Between 10 and 30% lapilli fragments (1mm - 6mm) angular to sub					
				(Agglomerate)	rounded (most sub angular)					
					Lapilli are chl. fragments (1) and feldspathic fragments					
					(1) and qtz. fragments (1) many are crystals					
					Also large bombs (6mm-20cm) with rounded to angular					
					outlines, most are rhyolitic often with qtz. eyes					
					and usually also tuffaceous but not always					
					The unit fines down hole, with very few bombs					
					after 30.52, but 20% before, only 2-5% after.					
					Locally clasts supported.					
					Sericite alteration (yellow-green) along fractures					
					and foliation, and vein walls. 2% sericitic alteration					
					A number of qtz - CaCO ₃ and just qtz veins with chl.					
					sericitic bombs and tourmaline (black) present (ie					
					30.2-30.52, 34.61-34.72, 38.7-38.97, 39.24-39.61,					
					very rusty from ground water circulation probably at 40-60					
					is some kind of fold. closure (no measurement possible)					
					Banding in qtz - CaCO ₃ , tourmaline veins is at 30-40°					
					to CA and contacts are sometimes similar or convoluted.					
					Banding is centimetric. Pygmytic folding of smaller veins					
					with sericitic alteration or halos.					
					-tr-py.					
					Weak to moderate foliation developed at 30° to CA at 23.5m,					
					40° to CA at 29.5m, 20° to CA and 35 metres, 40° to CA					
					at 47.6 metres, 30° to CA at 53m, 40° to CA at 56 metres.					
					from approximately 49 metres to the end of the unit,					
					the rock is rich in CaCO ₃ , prior to that the rock is strongly					
					silicified, there are coarse logs present 51.1-51.20 a					
					thin bed at 30° to CA of strongly carbonated (CaCO ₃)					
					volcaniclastic clast supported - angular to rounded clasts,					

DIAMOND DRILL LOG

ALTERATION
MINERALIZATION
STRUCTURE
LITHOLOGY

Epidote CaCO_3 fractures veinlets throughout at a angle of $60\text{--}70^\circ$ to CA about 2% from 1mm-1cm some white - giving a weak foliation CaCO_3 veins at $0\text{--}20^\circ$ to CA around 95%.

111.42-115.75m very blocky and on fractured altered (chl- CaCO_3) area with sections of crumbly rock, many CaCO_3 veins ($<1\text{cm}$), in this area.

133.36-136.39 as above but no CaCO_3 qtz. veins. The last 2cm of the unit became much finer grained with sharp contact at 40° to CA.

139.95 144.8 99 95 Intermediate Dk. green to light green to brown orange, to Felsic - motled alteration of epidote and hematite staining Abiometeratic round to angular fragments of rhyolite, ryolitic tuff with Tuff Qtz eyes, tonalite and mafic volcanic up to 10cm (Bomb- Lapilli) Minor sericitic alteration around some clastes. Qtz - CaCO_3 veins at $60\text{--}70^\circ$ to CA , also epidote veinlets Fairly silicic (hard) Lapilli 5-10% locally, made up of chlorite - Asph and qtz, and feldspar. Hematite stains on fractures.

V. Weak foliation at $30\text{--}40^\circ$ to CA Non magnetic MS=0 Tr Py

E.O.H.

DIAMOND DRILL LOG

SCALP
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MINERALIZATION
LITHOLOGY

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TORONTO, ONTARIO CANADA

5

HOLE NO. FLP 92-21 PAGE 5

COLLAR AZIMUTH
COLLAR DIP
ELEVATION
LENGTH

SURVEY
DEPTH

DIP

AZIMUTH

HOLE NO.

FLP 92-21

PAGE 5

CORE SIZE

CONTRACTOR

DATE LOGGED

LOGGED BY

DDH COMMENTS

INTERVAL
m ft

FROM
m ft

TO
m ft

LITHO TYPE

REMARKS

%

%

DESCRIPTION

GEOLLOGY (colour, grain size, texture, mineral assemblage etc.)

SAMPLE
SAMPLE
No. FROM TO LENGTH % SUL

ASSAY

DEPTH

TO

LENGTH

% SUL

MAGNETIC SUSCEPTIBILITY MEASUREMENTS X10⁻³ SI Units

	MS	MS	MS	MS	MS	MS	MS
125	79.9	0	99.4	25.4			
17.1	0	76	0	22.9	129.5	0	
20.1	0	77.5	0	102.4	101	131	11.7
232	0	78.9	2.20	104	8.66	132.5	20.8
262	0	80.0	19.2	105.5	239	133.36	25.3
293	0	81.5	21.5	107	20.1	135	15.7
323	0	83	20.9	108.5	28.5	135.9	22.6
35.4	0	84.5	27.2	109	6.04	137.5	262
38.4	0	86	25.7	111.42	28.2	139	0
41.5	0	87.0	24.4	114.90	22.1	139.8	19.6
44.5	0	88.5	23.1	115.90	19.6	140	0
47.6	0	89.5	27.1	117.2	23.6	141.5	0
50.6	0	89.6	0	118.5	21.8	143	0
53.7	0	90.2	0.93	119	19.7	144.5	0
56	0	91.7	0	120.7	23.5		
58	0	93.0	0	122.0	0	140	0
59.7	0	94.0	25.5	123.8	24.5		
62.8	0	95.0	0	(CaCO ₃ veinlets)	125	22.1	
65.8	0	96.5	23.9	126.8	22.8		
68.9	0	98.0	27.2	128	0		

DIAMOND DRILL LOG

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TORONTO, ONTARIO CANADA

SCA 1
GRAPHIC
LOG
MINERALIZATION
STRUCTURE
LITHOLOGY

COMPANY	NTS	CORE SIZE	SURVEY DEPTH	DIP	AZIMUTH	HOLE NO.	FUL. 92-22 PAGE 2 / 7
PROPERTY		CONTRACTOR			COLLAR AZIMUTH		
COMMENCED		DATE LOADED			COLLAR DIP		
COMPLETED		LOADED BY			ELEVATION		
OBJECTIVE		DDH COMMENTS			LENGTH		
CO ORDINATES							

INTERVAL	FROM	TO	Q	Q	LITHOTYPE
MI	<input checked="" type="checkbox"/>	<input type="checkbox"/>	RE	?	

DESCRIPTION	geology (color grain size texture, mineralization etc.)
-65.7-66.25m	blocky section, mm-cm fragments

67.37-67.47m serpentinite - Asbestos vein with fibres up to 2cm long and very fibrous

77.89-79.2m blocky section, mm-cm fragments 80.9-81.5m v. strongly hematized section displaying a

rusty appearance.

81.5-86.4m - strong intergranular - diabasic texture. MS 30x10³ SI units on average.

Minor CaCO₃ and CaCO₃ qts veinlets on fractures at angles from 0-90° to C.A.

Fractures (maybe jointing) at 50° to C.A. at 50.7m, 40° to C.A. at 53.7m, 55° to C.A. at 55m, 20° to C.A. at 58m, 40° to C.A. at 62.5m, 50° to C.A. at 70m, 50° to C.A. at 76m, 60° to C.A. at 81.3m, 50° to C.A. at 83.5m,

Lower contact at 35° to C.A. with some brecciation of country rock on contact.

86.44 109.62 90 70 Brecciated Red (brown), grey Green - mottled appearance altered V.fine to fine grained

blocky 86.44-90.44m. v. strongly brecciated by CaCO₃ veins at many mafic-Int. angles to the C.A.

Tuff Chlorite lepillic sized clasts seen throughout (1mm-5mm)

angular and usually lenticular.

Also feldspathic clasts (1mm-5mm) euhedral to subhedral usually epidotised.

Entire unit has varying degrees of epidotization and hematization, and CaCO₃ veining from strong to weak.

Bloody throughout, with some v. blocky sections as above with fine grained chilled lower margin and large euhedral pyrite grains (12) up to 2cm

95.3-95.72m completely lost section (no core returned)
Higher MS = 57.3 x 10 SI units locally
and sub unit Very blocky dyke

ASSAYS

SAMPLE NO.	FROM	TO	LENGTH	% SiO ₂
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DIAMOND DRILL LOG

STRUCTURE MINERALIZATION ALTERATION SULFIDE

W.A. HUBACHECK CONSULTANTS LTD.

TORONTO ONTARIO CANADA

INTERVAL M	Ft. FROM TO	LITHOTYPE	DESCRIPTION			SAMPLE No.	FROM TO	LENGTH in. SUL
			SAMPLE No.	TO	LENGTH in. SUL			
8	REC	RBD						

Majority of tuff has MS=0-4 x 10⁻³ SI Units.
 106.6-102.7 qts. CaCO₃, hematite chlorite brecciated vein.
 102.1-109.62 is more strongly epidotized tuff with all
 feldspar epidotized and fractures epidotized with foliation
 at 60° to C.A. Moderately developed due to epidotization.
 109.62 111.50 90 70 Hematized
 chloritic fine grained (<1mm) with 5% lapilli present of feldspar and

Weakly altered to chlorite
Weakly carbonized (CaCO_3) along foliation in thin veinlets.
Foliation is at 60° to C.R., well developed with lepilli
elongated along foliation 3:1
MS = 0- $\times 10^3$'s SI Units

112.30 III/13 30 30 very similar to earlier intrusive, although mafic core & 2cm in size, so hard to determine true Chlorite infilling between feldspathic grain Intrusive Strong hematite alteration for most of unit

MS=6.77 x 10⁻³ 81 Únites.

Minor CaCO_3 veins on fractures
Stronger chlorite alteration down hole.

Grey white to green
Fine grained white matrix
117.13-117.72, 117.94-118.63m
Brecia in a white matrix, not hard, no carbonate, 30-40%
clasts and fragments are angular to rounded and are altered
tuffaceous rocks from above units and below, also qtz
and chlorite up to 3cm in size, avs. 5mm. Locally chloritic

fairly competent.
117.72-117.94, 119.67-119.76 Hematized fractured Tuff
118.63-119.07 Quartz and qtz-CaCO₃,
Breciated cherty altered rock with a pink orange colour
and chlorite stringers running through the sub unit.
119.07-119.67 - chortitised, graphitic breciated fault

DIAMOND DRILL LOG

SCALIS
GRAPHIC
LOG

METHODS
STRUCTURE
ALTERATION
MINERALIZATION

TORONTO, ONTARIO, CANADA
FILE NO. FLL 92-22 PAGE 6 / 7

COMPANY	NTB	CORE SIZE	SURVEY	DIP	AZIMUTH	HOLE NO.
PROPERTY	DISTRICT	CONTRACTOR	DEPTH			COLLAZIMUTH
COMMENCED	TYP LAT LONG	DATE LOADED				COLLAR DIP
COMPLETED	CLAIM	LOADED BY				ELEVATION
OBJECTIVE	CO-ORDINATES	DDH COMMENTS				LENGTH

INTERVAL
M ft TO
 FROM LITHOTYPE
 8

DESCRIPTION
GEOLOGY (colour grain size texture mineralization etc.)
MAGNETIC SUSCEPTIBILITY

ASSAYES
SAMPLE
SAMPLE
No. FROM TO LENGTH % SUL

METERAGE	MS	METERAGE	MS	METERAGE	MS
41.0	9.33	67.55	27.6	96.2	36.8
42.60	10.5	69	39.9	97.5	0.25
44.0	4.84	7.05	32.5	99.1	1.14
45.5	1.55	72	37.9	100.5	0
45.8	24.4	73.2	30.4	102.1	0
47.25	0.52	74.9	32.3	103.0	0
48.75	0.94	76.3	37.5	105.5	0
50.0	45.7	77.2	32.8	107	0
51.5	44.4	79.4	22.7	108.4	0
53	41.8	81.2	31.0	109.6	3.85
54.5	43.0	82.5	39.6	110.5	23.7
55.5	39.0	83.8	27.1	111.5	0
57.0	31.8	86.7	0	112.7	0
58.2	32.3	87.9	0	113.2	5.06
59.4	32.3	89.5	1.44	117.8	2.42
61	22.6	90.5	0.22	119.0	0.67
62.3	32.2	92.0	0	120.4	0
63	5.81	93.0	0.34	121.7	0.3
65.5	30.1	94.2	0	123	0
66.4	31.1	95.2	71.4	124.2	0

DIAMOND DRILL LOG

MCAN
GRAPHIC
LOG

STRUCTURE
LITHOLOGY
ALTERATION
MINERALIZATION

W.A. HUBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO CANADA

COMPANY	Sudbury Contact Minesnts	32 D 4	CORE SIZE	NQ	CONTRACTOR	Heath & Sherwood	SURVEY	DIP	AZIMUTH	HOLE NO.	FL 92-23	PAGE
PROPERTY	Diamond Lake (185)	DISTRICT	Larder Lake				DEPTH	30.5m	54°15'	COLARAZMUTH	270°	13
COMMENCED	June 28, 1992	TWP/LAT/LONG	McVittie					68m	57°	COLLARDIP	-60°	
COMPLETED	July 3, 1992	CLAM	L 821910	LOGGED BY	D.W. Christie		ELEVATION	99m	54°30'			295
OBJECTIVE	Mag High and	COORDINATES	L 0+54S 2+63 E	DDH COMMENTS			LENGTH	120.4m	57°	LENGTH	161.6m	
	OV - FL-89-2 Kimberlite											

INTERVAL	FROM	TO	TYPE	DESCRIPTION	SAMPLE
0	55.5	Overburden	Casing left in and capped Sand, gravel and boulders	NEOLOGY (colour grain size texture mineral alteration etc.)	NO FROM TO LENGTH % SUL.

55.5 106.6 85 80 Interbedded Grey to yellow grey
Graywacke Very fine grained to medium grained (<2mm)
and Arkose Seems to grade through sandstones, graywacke to arkosic sand-
stones.
Siltstone Sericitic alteration is fairly strong, chlorite alteration
is strong in some beds.

Interbedding is on a metre scale throughout the unit
with the arkosic sandstones being the most competent
and the siltstones the least.

Cleavage is well developed in siltstones and graywacke
and poorly developed in the more massive arkose.
Cleavage is seen at 60° to C.A. at 59.4m., 40° to C.A.
at 62m., 50° to C.A. at 65m., 30° to C.A. at 73m., 60° to
C.A. at 75m., 50° to C.A. at 84.5m., 60° to C.A. at 94.2m.,
60° to C.A. at 98m., 50° to C.A. at 106.4m., the rock is
fissile along cleavage planes.

Sericite alteration is most intense where cleavage is well
developed and near qts - CaCO_3 veinlets. Bedding is usually
convoluted, pygmatically folded and often marked by qts.
Veinlets and sericitic alteration and chlorite alteration.
Bedding is often parallel to sub parallel to C.A. with cleavage
creating small fault offsets of bedding.
Bedding is millimetric to centimetrically banded, dark, and
light with qtz - CaCO_3 bands, chlorite bands and sericitic
bands.

78.17-78.60m - blocky section consisting of white bull qtz.
with chlorite-sericite, minor CaCO_3 and no V.S.
Other minor qtz and qtz - CaCO_3 veins are present often
pygmatically folded.
-MS - 1 x 10-3 \$1 units.

DIAMOND DRILL LOG

SCAL
GRAPHIC
1:100
STRUCTURE
LITHOLOGY
ALTERATION
MINERALIZATION

W.A. HUBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO CANADA

PAGE 4 13

COMPANY	NTS	CORE SIZE	SURVEY	DIP	AZIMUTH	HOLE NO.	FL 92-23	PAGE
PROPERTY	DISTRICT	CONTRACTOR	DATE LOGGED	COLLAR AZIMUTH	COLLAR DIP			
COMMENCED	TWP /LAT LONG	CLAIM	LOGGED BY	ELEVATION	LENGTH			
COMPLETED		CO ORDINATES	DDH COMMENTS					
OBJECTIVE								

INTERVAL	PI	FROM	TO	OE	LITHOTYPE	DESCRIPTION	SAMPLE	ASSAY
M	ft			%		geology (colour, grain size/texture, mineral, alteration etc.)	NO	
117.19	118.19	99	99	99	Hypabyssal Kimberlite Brccia	Later intrusion into surrounding rocks Very similar to 109.23-109.59 No xenocrysts, but some small (<2cm) clasts of country rock <1%.		
118.19	123.5	95	95	95	Heterolithic Volcaniclastic Kimberlite Brccia	Fairly magnetic HS is in $20' \times 10^{-3}$ SI Units Very similar to 106.60-109.23, however much more highly carbonated, higher percentage mica (phlogopite + muscovite (silvery) and clay alteration giving the rock a dull recessive brown appearance Also much softer		
120.5	134.84	95	70	70	Heterolithic (autolithic)	Several milky white CaCO_3 veinlets Very similar to 106.6-109.23 Volcaniclastic many xenocrysts are altered to a baby blue (sometimes garnet bearing -red-purple) colour of talcy material, also serpentinized vugs Brccia		
						Ilmenite, garnet + chrome diopside bearing xenoliths Orange coloured xenoliths (garnet) → Massive crystalline Increase in olivine content towards lower contact with grains up to 1cm rounded. Books of phlogopite up to 2cm, Ave. 5mm Knife edge lower contact		
						Gradual upper contact, vugs decrease down hole 227.5-227.75 clay like alteration (Chl.-Kaolinite) with strong phlogopite-gouge like material with only pelletal lapilli, xenoliths and country rock preserved Also at 227.97-228.0 same as above 229.80-1 is a clay filled fault (5mm) wide with chlorite and phlogopite-muscovite present 15° to C.A. 230.71-231.44 blocky ground with thin 5mm clay-muscovite (silvery) shear planes and fracture fills, with striations on fracture surfaces.		

DIAMOND DRILL LOG

SCAL
CARTOGRAPHIC
LOG
LITHOLOGY
STRUCTURE
MINERALIZATION
ALTERATION

W.A. HUBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO CANADA

COMPANY	NTS	CORE SITE	SURVEY DEPTH	DIP	AZIMUTH	HOLE NO.	FL	92-23 PAUL 5	13
PROPERTY	DISTRICT	CONTRACTOR	COLLAR AZIMUTH						
COMMENCED	TWP /LAT LONG	DATE LOGGED	COLLAR DIP						
COMPLETED	CLAIM	LOGGED BY	ELEVATION						
OBJECTIVE	CO-ORDINATES	DDH COMMENTS	LENGTH						

INTERVAL
M FT CM IN
FROM TO %

LITHOTYPE
M FT CM IN
FROM TO %

DESCRIPTION
GEOLOGY (colour, grain size, texture, mineral alteration etc.)

ASSAYS

SAMPLE NO	FROM	TO	LENGTH	% SUL

131.12-132.7m - blocky ground with clay-chlorite-talc
alteration with 5mm clay gouge. 131.12-131.37m sub
parallel to C.A., 131.63-131.82 and 132.-132.21 1g
clay - talc - chlorite altered Kimberlite, much green
and very soft.

132.7-134.84 very competent RQD=95, higher olivine content,
15%, especially right at lower contact.
Some pelletal lapilli kernels of country rock exhibit
foliation or bedding within them.

Yellow Grey

V. Fine Grained
Chloritized
Banding of yellow strongly sericitized rock and grey chloritized
(weakly) rock, millimetric to centimetric also qtz veined
CaCO₃ veinlets crosscutting bedding
Bedding is convoluted and crumulated with many fold
closures, but averages 40° to C.A.

134.84-135.08 very strong chlorite-talc-sericite alteration
as a contact aureole to the Kimberlite. Then 135.08-135.6
is strongly qtz veined (60% qtz)

136.93-140.97 very blocky (mm-cm with odd dcm fragment),
pieces of fault gouge material found throughout.

140.78-140.97 is section of fault breccia with chlorite
gouge between fragments

Tr Py.

Dk. Grey (beige)
to underlying v. fine Grained, chloritized,
Database Minor crosscutting, CaCO₃ veinlets at 45° to C.A. and
40° (opp. dir.) to C.A.

Very weakly magnetic MS=0.44 x 10⁻³ SI units.

Fine Grained (<1mm) to med. Grained (1-3mm) gray Green
to red due to hematite stains on fractures, minor CaCO₃
grading from fine

DIAMOND DRILL LOG

SCALE
1:25000
GRAPHIC
STRUCTURE
ALTERATION
MINERALIZATION
LITHOLOGY

INTERVAL M FROM F TO	RECE %	LITHOTYPE	DESCRIPTION GEOLOGY (colour/grain size/texture/minerals/alteration etc.)
			veinlets and on fractures surfaces Progressive increase in magnetism
141.45-145.10	88		141.45-145.10 Grey green colour fine Grained, Mg=0.5-2.0x10 ⁻³ SI units Very blocky, RQD=10, minor CaCO ₃ veinlets
145.10-151.18m	88		145.10-151.18m Grey green to red green, fine to med. Grained, blocky RQD=20, chloritized
			Equigranular intergranular textures Cl=40-60
151.18-161.6	88		Tr cpy, tr py 151.18-161.6 Very competent med. Grained database, intergranular lath Network - locally coarse (5mm-7mm) Cl=50-60 of hornblende - plagioclase (2mm-3mm), very magnetic (29x10 ⁻³ SI Units) RQD=80%, Rac=95%
161.6	88		Tr cpy, tr py CaCO ₃ veinlets in fractures and hematite on fractures at 50° to C.A. at 151.4m, 40° to C.A. at 153m, 20° (opposite) and 30° to C.A. at 151m at 30° and 0° to C.A. at 157.5m. Blochy at end of unit about 2m of blocky ground E.O.H.

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TORONTO, ONTARIO, CANADA

NTS	CORE SIZE	SURVEY DEPTH	DRF	AZIMUTH	HOLE NO.	FL	PAGE
COMPANY	CONTRACTOR				92-23	6	13
PROPERTY	DATE LOGGED				COLLAR AZIMUTH		
COMMENCED	LOGGED BY				COLLAR DIP		
COMPLETED	CLAIM				ELEVATION		
OBJECTIVE	CO ORDINATES				LENGTH		
	DDH COMMENTS						

ASSAYS

SAMPLE NO	SAMPLE FROM	TO	LENGTH	% SUL
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DIAMOND DRILL LOG

W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

COMPANY	NTS	CONTRACTOR
PROPERTY	DISTRICT	DATE LOGGED
COMMANDER	TWP / LAT LONG	LOGGED BY
COMPLETED	CLAIM	DDH DOCUMENTS
CHARTERED	CO-ORDINATES	

SURVEY	DIP	AZIMUTH	COLLAR AZIMUTH
DEPTH			COLLAR DIP
			ELEVATION
			LENGTH

SAMPLE NO.	FROM	TO	LENGTH	ABSTRACT	
				% SUL.	% SUL.
DESCRIPTION					
				geology/texture/grain size/structure/mineral alteration etc.)	
				Kimberlite Classification : Hyperblastic Diatreme Zone	
				Tuffulitic Breccia : Composition and Shape	
				1. Basal Gravity Pelletal Angular	
				2. Volcanic Amygdules spherical	
				3. Intrusive Igneous	
				4. Metamorphic Foliated	
				5. Metamorphic Non-foliated	
				6. Intrusive Non-foliated	
				7. Intrusive Igneous	
				8. Intrusive Metamorphic	
				9. Intrusive Volcanic	
				10. Intrusive Tuffulitic Breccia	
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DIAMOND DRILL LOG

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ALTERATION
STRUCTURE
LITHOLOGY

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TORONTO, ONTARIO, CANADA

COMPANY	NTS	CORE SIZE	SURVEY DEPTH	DIP	AZIMUTH	HOLE NO.	FL-92-23 PAGE 13 13
PROPERTY	DISTRICT	CONTRACTOR				COLLAR AZIMUTH	
COMMENCED	TWP /LAT LONG	DATE LOGGED				COLLAR DIP	
COMPLETED	CLAIM	LOGGED BY				ELEVATION	
OBJECTIVE	CO ORDINATES	DDH COMMENTS				LENGTH	

INTERVAL M <input type="checkbox"/> F <input checked="" type="checkbox"/> R <input type="checkbox"/> S FROM TO	REMARKS	LITHOTYPE	DESCRIPTION GEOL OGY (colour, grain size, texture, mineralization etc.)	MAGNETIC SUSCEPTIBILITY (x10 ⁻³ SI Units)		SAMPLE NO.	SAMPLE FROM TO	SAMPLE LENGTH	ASSAY NO. SUJ.
				METERAGE	MS				
56.4	0.09	83		101.6	4.28	8.55	152.4	29.7	
58	0.13	84		109.15	4.77	133.5	7.27	155.0	3.93
59	0.05	85.5		109.4	18.8	134.7	9.71	156.6	27.2
61	0.09	86.6		111.0	6.38	134.9	0.72	155.5	4.89
62	0.03	88		112.0	5.44	136	0	1.59	24.9
63	0.05	89.5		113.5	4.68	138.2	0	161.3	20.8
64.5	0.03	91		115	6.76	139	0		
66	0	92.5		116.90	3.67	141	0		
67	0.01	93.5		117.40	27.8	142.5	0		
68.2	0	95		118.5	3.63	143	0		
69.3	0	96.5		120.0	2.80	144.7	0		
71	0	98		121	2.93	145.0	0		
72.0	0	99.4		122.5	4.88	145.5	22.5		
73.5	0	101		124	6.86	146	21.2		
75	0	102.1		125.5	6.15	147.7	0		
76.2	0	103.5		127	10.00	148.5	11.1		
77.5	0	105		128	8.52	150.0	28.2		
80.8	0	106		129.7	5.53	151.0	19.3		
82	0	106.7	4.76	131.0	8.64	152.5	25.4		

Samples
Sample to Lakefield Research

Thin Sections

F1-23-1 106.60 134.84
F1-23-2 110.66 110.74
F1-23-3 119.26 119.31
F1-23-4 118.02 118.06
F1-23-5 128.28 128.44
F1-23-6 157.0 157.14

STRUCTURE MATERIALIZATION GRAPHIC DOCUMENTATION

DIAMOND DRILL LOG

W.A. HUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO CANADA

TORONTO, ONTARIO CANADA

COMPANY	Sudbury Contact Minerals 32 D4			CORE SIZE	NQ	SURVEY DEPTH	DIP	AZIMUTH	Hole No/FL
	PROPERTY	DISTRICT	LATERAL			62.5	88°45'	-90°	COLLAZIMUTH
Panthero (193)	Panthero (193)	Larder Lake	Gauthier Twp.	DATE LOGGED	July 11, 1992				COLLARDIP
COMMENCED July 6/92 Mob.	TWP 14A1 LONG	Gauthier Twp.		LOGGED BY	D.W. Christie				ELEVATION
COMPLETED July 9/92 damob.	CLAIM L884026			DDH COMMENTS					LENGTH 62.5m
OBJECTIVE Mag high, gravity low, coordinates L3250N 9+50W									
topographic low									
INTERVAL	FROM	TO	LITHOTYPE	DESCRIPTION	GEOLOGY (colour, grain size, texture or mineral assemblage etc.)	SAMPLE NO	FROM	TO	LENGTH % SUL
M <input checked="" type="checkbox"/> F <input type="checkbox"/> R <input type="checkbox"/> B <input type="checkbox"/> S <input type="checkbox"/> Q	0	43.35	Overburden	Sand and Clay - casting removed					
	43.35	49.4	90 75 Oxidized weathered carbonated chloritised mafic fragmental (agglomerate) tuff	-dk. Green (minor) to rusty tan brown (majority) -carbonated (CaCO_3) selectively, sections still green have been chloritized weakly. Relict textures of lapilli (<1cm for most part, minor (<3cm) both dark and light coloured. 48.65-49.4 grey-purple white qtz CaCO_3 vein, very blocky weathering out, tr py relict foliation at 40° to C.A.					
	49.4	62.5	95 85 Carbonated lapilli	green, fine grained matrix with 35-40% fragments, lapilli and bombs. -lapilli are shard like to well rounded, 1mm-6cm (ave. 5mm angular blades) Also larger clasts up to 8cm. All lapilli and bombs are mostly mafic tuff, but also siltstone, felsic ash tuff (with shards) and the same composition as this rock CaCO_3 alteration is strong but not pervasive Fine grained qtz CaCO_3 chlorite in filling fractures locally. -tr pyrite seen in felsic ash tuff clasts and in matrix cubic pyrite <1mm - clast supported locally					
				-no foliation, however qtz + qtz CaCO_3 veins at 30° to C.A. at 53.5m 10° to C.A. at 56m, 70° C.A. at 57.5m 70° to C.A. at 59.4m.					
				Weakly chloritized throughout					

E.O.H.

DIAMOND DRILL LOG

STRAUCHURE
ALTERATION
LITHOLOGY

COMPANY	NTS	CORE SIZE
PROPERTY	DISTRICT	CONTRACTION
COMMENCED	TWP LAT LONG	DATE LOCATED
COMPLETED	CLAIM	LOCULLARY
OBJECTIVE	CO ORDINATES	DDH COMMENTS

INTERVAL	REC	BB	LITHOTYPE
FROM	TO	?	

DESCRIPTION	GEOLOGY (color grain size texture number lithofacies)
-------------	---

Magnetic Susceptibility

Metric	MS	MS
445	0.29	0.26
455	0.29	0.23
49.4	0.27	0.28
50.8	0.23	0.19
54	0.24	
55	0.24	
56.3	0.19	

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TORONTO ONTARIO CANADA

SURVEY	DIP	AZIMUTH	HOLE NO.	FLP	PAGE
DEPTH			COLLARAZMUTH	92-24	2 / 2
			COLLAHDIP		
			ELEVATION		
			LENGTH		

SAMPLE	SAMPLE	SAMPLE	ASSAYS
NO	FROM	TO	LENGTH

DIAMOND DRILL LOG

SHALE
INTERFACIAL
ALTERATION
MINERALIZATION
STRUCTURE
LITHOLOGY

M F S R D I

FROM TO DEPTH

INTERVAL

LITHOTYPE

ALTERED

MINERALIZED

STRUCTURE

LITHOLOGY

W.A.HUBACHECK CONSULTANTS LTD.

TORONTO ONTARIO CANADA

COMPANY	NTS	CORE SIZE	SURVEY	DEPTH	DIP	AZIMUTH	HOLE NO	COLLAR AZIMUTH	PAGE
PROPERTY	DISTRICT	CONTRACTOR	NORILL-92-25	15'			COLLARAZMITH		2
COMMENCED	DWP /LAT LONG	DATE LOCATED					COLLARDIP		
COMINH LIFT	CLAIM	LOCATED BY					ELEVATION		
OBJECTIVE	CO-ORDINATES	DDH COMMENTS					LENGTH		

DESCRIPTION	SAMPLE	SAMPLE	ASSAYS
GEOLOGY (Kilometre from surface to bottom of alteration site)	NO	FROM	TO

alteration.
Sericite is light green and wispy and parallel foliation.

Qtz is in veins 5mm wide and is gray and parallel foliation.

51.65-51.85 Chloritic breccia zone, fragments from 1mm-5cm fragments show presence of distorted Qtz-feldspar veins, matrix (2%) is dk. green chlorite, fragments are otherwise the same as surrounding rock.

55.42-56.16 V. blocky broken up section with fragments 5mm-5cm.

61.10-61.36, 61.56-61.98, 62.25, 63.15, 63.58-64.13m, 68.37-69.56, 71.0-71.49

Potassium altered, sericite altered, Qtz altered lithic greywacke

Locally alteration has totally erased clast outlines but some are still faintly visible, very similar to 49.23-50.7 65.04-65.56 Blocky section 1cm-5cm fragments

71.49-72.19 Strongly altered section with sericite chlorite alteration Qtz-feldspar veins up to 2cm wide fairly soft and hematite alteration with hematite in Qtz veins rusting. 85.0m a 1cm long 3mm wide fuchsite clast, v. angular bright Green Larder Lake Group.

95.18 100.89 99.95 Sheared Altered Grey dark/light striping. Fn. Grained with 5-10% clasts 3cm, ave. 5mm, rounded poorly sorted.

Greywacke/
Conglomerate

Qtz. feldspar veins (1cm) foliation which is Epidote associated with veins.

96.84-97m is a large Qtz feldspar vein with sericite and chlorite alteration on the walls.

Clasts also show strong alteration by sericite and chlorite (yellow and dk. green) respectively Moderate anft.

DIAMOND DRILL LOG

BLAB
GRAPHIC
LOGO
STRUCTURE
ALTERATION
MINERALIZATION
LITHOLOGY

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TORONTO, ONTARIO (CANADA)

COMPANY	FROM	TO	INTERVAL	M	%	LITHOLOGY	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAY
PROPERTY							GEOLOGY (colour/ grain size/texture/mineralization/alteration etc.)					
COMMENCED												
COMPLETED												
OBJECTIVE												
CO-ORDINATES												
LOCATED BY												
AIM												
D.D.H. COMMENTS												

SURVEY	DIP	AZIMUTH	HOLE NO.	FL.I.-92-25PAUF 3	6
COLLAT	COLLAZIMUTH				
DIP	COLLADIP				
ELEVATION					
LENGTH					
SAMPLE					
NO.					
FROM					
TO					
LENGTH					
%SUL					

No V.S. non magnetic

Foliation well developed at 35° to CA at 99m

Darker grey

Fn. Grained

Sediment with strongly silicified

Qtz feldspar veining grey to white throughout - with sericitic Sections.

Talcose

talc foliation planes - rock derived from u/m rocks

Sections.

Giving talc alteration.

Foliation is at 50° to CA, but often disturbed, and is marked by sericitic/talc/talc alteration.

Veining shows brecciation and locally vuggy

30cm section of dk. grey qtz. and later crosscutting

veinlets of white qtz. 101.24-101.55

Tr cpy

Pink grey to dk. green

Colour changes with changing alteration, ie strong potassio alteration to strong chlorite sericitic alteration.

Chlorite and sericitic line cleavage (shown) and foliation planes.

V. Strong cleavage at 20° to CA and strong gneissic foliation at 40° to CA opposite directions to CA. Clasts are 2mm-1cm mostly feldspathic, but some mafic volcanic, well rounded to lenticular.

Qtz feldspar veinlets and veins up to 10cm wide usually 5mm wide and paralleling foliation or cleavage at 102.32-104.01 - mostly potassio-sericitic alteration, then few 104.01-105.58 is more chloritic alteration and sericitic alteration.

Grey colour, fn. Grained matrix with clasts lcm, average 3mm, well sorted with thin coarse beds ie 108.08-108.30 with a fining down hole appearance - overall 30% clasts sericitic/chlorite along foliation planes with foliation elongated bedding at 20° to CA with clasts sometimes elongated

100.83102.32 1.49tr cpy

7151 100.83 102.32 1.49tr cpy

100.83102.32 1.49tr cpy

102.32105.58 95 90 Sheared Altered Greywacke/ Sandstone

105.58 108.7695 90 Greywacke

DIAMOND DRILL LOG

BLUFF
CHATHAM:
LCS
STRUCTURE
ALTERATION
MINERALIZATION
LITHOLOGY

W.A. HUBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO, CANADA

COMPANY	NTS	CORE SIZE	SURVEY DEPTH	DIP	AZIMUTH	HOLE NO.	FLL-92-25 PAGE
PROPERTY	DISTRICT	CONTRACTOR				COLLAR AZIMUTH	6
COMMENCED	TWP /LAT LONG	DATE LOCATED				COLLAR DIP	
COMPLETED	CLAIM	LOCATED BY				ELEVATION	
OBJECTIVE	CO-ORDINATES	DDH COMMENTS				LENGTH	

INTERVAL	M <input type="checkbox"/> F1 <input checked="" type="checkbox"/> 3B <input type="checkbox"/> R	FROM	TO	DEPTH	LITHOTYPE	DESCRIPTION	SAMPLE	ASSAY
						GEOLGY (COLOR GRAIN SIZE TEXTURE MINERALS ALTERATION ETC.)	SAMPLE N°	
108.76149.82		99	95		Sericitic altered pebbly greywacke	Medium to dark grey. Fn. to med. grained matrix with clasts from 1mm-5cm usually round, locally clast supported mostly matrix supported. Clasts are feldspathic (granitic, gabbroic) or are dark (Conglomerate) coloured mafic volcanics, u/m volcanics, poorly sorted.		
						Sericite alteration is wispy along foliation planes and fractures, around large clasts and associated with qtz-feldspar veins and minor qtz CaCO ₃ - feldspar veins are generally <5mm but odd ones to 3cm wide at 15-70° to CA - white in color and vuggy.		

The most angular clasts are green carbonate clasts and fuchsite clasts which are bright green coming from the Larder Lake group to the south - only tr-12 Generally 20-30% clasts with 10% large ones (1cm and larger) and 20% small (1mm-1cm)

Foliation (bedding) weak at 20° to CA at 118m and 133m at 20° to CA at 141.50m alignment of angular stretched clasts (6:1) most clasts 2cm and 20° to CA at 149.60m.

145.52-145.60, 145.67-145.73, 148.6-148.86 are qtz-feldspar CaCO₃ chlorite sericitic, banded veins at 60°, 60° and 20° to CA respectively.

Gradual lower contact: some bedding unit contacts are very sharp within the unit (ie at 142.63m at 35° to CA)

Pink orange colour med-fine grained matrix 50% grains of feldspathic appearance <3mm 5-10% lithic lasts of mafic and felsic composition including Green carbonate or fuchsite.

Some fracturing brecciation parallel to C.A. infill alteration and at 153.84-153.92 in this brecciation is a 3cm by 2cm section of fuchsite alteration.

DIAMOND DRILL LOG

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graph TD
    A[METHODLOGY] --> B[STRUCTURE]
    B --> C[MINERALIZATION]
    C --> D[ALTERATION]
    D --> E[GRAPHIC]
    E --> F[SCALING]
  
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W.A. HUBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO, CANADA

COMPANY	NIS	CORE SIZE	SURVEY DEPTH	DIP	AZIMUTH	HOLE NO.	FL.L-92-25 PAGE 5	6
PROPEHRY	DISTRICT	CONTRACTOR				COLLARAZMULUH		
COMMENCED	IWP-LAT LONG	DATE LDRD				COLLAR DIP		
COMPLETED	CLAIM	LOCKED BY				ELEVATION		
OBJECTIVE	COORDINATES	ND COMMENTS				LENGTH		

SAMPLE	DESCRIPTION				GEOLOGY (Lithology) grain size/texture/minerals etc)	SAMPLE NO	FROM	TO	LENGTH	% SUL	
	INTERVAL M	□	FL	□							
156.47181.1	99	95	Altered		Strong light green sericitic alteration seen throughout Gradual lower contact, but at same time fairly sharp - no foliation or bedding.						
Pebbly					Classes up to 5cm in size, many are almost entirely altered.						
Greywacke					Dark grey to yellow (minor altered sections)						
Conglomerate					Very similar to 108.76-149.82 66-0% clasts from 2mm-10cm, poorly sorted, with only 20-30% classes >5mm some Fe-Carbonate rusty looking clasts and many subangular elongated clasts parallel to the weak foliation larger clasts tend to be feldspathic with odd u/m-mafic clasts, large, from Larier group rocks.						
					Sericitic alteration along foliation and fractures and associated with clasts.						
159.21-159.77,					159.21-159.77, 161.90-162.35, 171.41-172.26 bleached sections of fewer clasts and firmer matrix with potassasic? hematite alteration giving the rock yellow-flesh pink orange colour						
					Very similar to 149.82-156.47 In 171.41-172.26 there is small (<2mm) grey qtz shards as well as fuchsite shards, possibly a more distal facies, these sections seem to have local sections of strong sericitic alteration.						
					Foliation is weak to moderate 15° to CA at 161m, at 30° to CA at 169m, at 20° to CA at 173m 30° to CA at 177m Much more Fe Carbonate visible in the clasts and some clasts are up to 20cm in diameter with speckled Fe-CaCO ₃						

DIAMOND DRILL LOG

STRUCTURE
ALTERATION
MINERALIZATION
LITHOLOGY

W.A. HUBACHECK CONSULTANTS LTD.

TORONTO ONTARIO (CANADA)

COMPANY	SUBBURY CONTACT MINES	NR'S	32 D/4	CORE SIZE	NQ	CONTRACTOR	Heath & Sherwood	SURVEY DEPTH	DIP	AZIMUTH	HOLE NO. FL-92-26	PAGE 1	9
PROPERTY	Fork Lake (#185)	DISTRICT	Larder Lake			DATE LOADED	Dec. 9/92	65.55	60.5		COLLAR ALTITUDE	330	
COMMENCED	Nov. 17/92	TWP / AT LONG	McVittie Twp.			LOOKED UP	D.W. Christie	96.3	61	335	COLLAR DIP	-60°	
COMPLETED	Nov. 21/92	CLAIM	L 19280					121.95	60.5		ELEVATION	295	
OBJECTIVE	Mag High linear	COORDINATES	L93N 1+87.5E	DDH COMMENTS				153.6	60		LENGTH	168.70	

INTERVAL	M	ft	FROM	TO	DEPTH	LITHOTYPE	DESCRIPTION	SAMPLE	SAMPLE	ASSAYS		
								NU	FROM	TO	LENGTH	" " ft.
0	66.08		66.08	Overburden			Casing removed					
66.08	107.53		50	40	Braciated Greywacke	Med. Green grey in colour Fine grained (<1mm) -10-20% qtz calcite veining and breccia infilling veins. veins are 1mm to 5cm wide usually brecciating the wall rocks around them, veins are oriented at all angles to CA in a crackle breccia type vein network. Rock is moderately soft (<4.5) due to chlorite content						
68.2	71.33		72.66	82.19		84.47	86.31	86.9	87.4	89.33	89.9,	
93.84	94.11											
107.53	108.5											

68.2-71.33, 72.66-82.19, 84.47-86.31, 86.9-87.4, 89.33-89.9,
93.84-94.11,

Blocky Greywacke in cm-mm fragments angular and broken
up especially the larger sections due to chlorite fracture

Angular to subrounded mm to cm fragments of greywacke set
in 40%-60% qtz-CaCO₃' white to grey white matrix except
83.10-83.60, 92.70-92.96, 95.41-96.10, 101.43-102.28,
106.57-107.53

Quartz CaCO₃ greywacke breccia zones
Angular to subrounded mm to cm fragments of greywacke set
in 40%-60% qtz-CaCO₃' white to grey white matrix except
for 92.70-92.96 which is a qtz-pink calcite vein at 40°
to CA

Tr pyrite seen in qtz. CaCO₃ veins

No foliation, tr py
Homogeneous
Chlorite on fracture slip planes

Gradual lower content

Dk. Green grey

107.73-107.95, 108.10-108.50
Chloritized brecciated carbonated (CaCO₃ and dolomite)
greywacke as fault gouge wall alteration, strongly mottled
by wispy chlorite and CaCO₃ -Qtz-dolomite veinlets (<2m) and
chloritized brecciation not soft

BY AIR
GRAPHIC
IXX

STRUCTURE
ALTERATION
MINERALIZATION

DIAMOND DRILL LOG

W.A. HUBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO, CANADA

INTERVAL	FROM	TO	DEPTH	LITHOTYPE	DESCRIPTION GEOLOGY (FOLIATION, SHEAR LINES, MINERALS, ALTERATION, ETC.)	SAMPLE No.	FROM	TO	LENGTH	% SOL.
134.04 - 134.39	99	80	60 40	Kimberlite Breccia Dyke	125.83-133.56 sericitic (Ankerite) Calcite Qtz altered and brecciated greywacke, very blocky (cm-mm) from 127.09-128.53 with some ground core, a great deal of CaCO ₃ qtz breccia especially 132.46-133.56 (20% qtz-calcite veins) 133.56-133.04 contact aureole with underlying kimberlite dyke having CaCO ₃ , (White) 5% veinlets and fracture fillings as well as chloritic alteration giving rock a dr. black green colour.					
134.39 - 134.50	80	75	60 40	Kimberlite Breccia Dyke	Dk. green black, med. to fine grained Contacts are at 20° to the CA and are sharp but jagged with the upper contact showing a kimberlite breccia over 2cm with leus olivine (20%) and more clasts (60%) There is 50% subhedral to round olivine grains (1mm-5mm, Ave. 2mm) dominating the texture, they give a dk. brown to black colouring but show serpentine alteration rims and are recessive when seen with the microscope, fairly equigranular -20% CaCO ₃ calcite amygdules & 5mm, Ave. 2mm) round The matrix is a serpentine/calcite makeup. There is 5-10% clasts of a dark coloured (peridotite) rock type.					
134.50 - 134.65	75	60	60 40	Kimberlite Breccia Dyke	The rock is v. magnetic, swing magnet reacts and highly carbonated.					
134.65 - 134.82	60	40	60 40	Kimberlite Breccia Dyke	Green gray to green yellow to black V. Fine Grained Sericitic/Chlorite/Qtz CaCO ₃ banding showing severe convolutions due to drag folds associated with the Misima Fault and the underlying kimberlite intrusive Augen textures due to strong brecciation with sericitic pressure shadow.					
134.82 - 134.95	40	30	60 40	Kimberlite Breccia Dyke	Foliation when not too badly convoluted falls between 45°-80° to the CA.					
134.95 - 135.10	30	20	60 40	Kimberlite Breccia Dyke	Tr-17 mineral zones in the qtz banding veins which are krev					

INTERVAL	FROM	TO	DEPTH	SURVEY CORE SIZE	DEP	AZIMUTH	HOLE NO.	FL-92-26	PAGE	3	9
134.04 - 134.39	99	80	60 40	10' x 10'	10'	10°	COLLAR AZIMUTH				
134.39 - 134.50	80	75	60 40	10' x 10'	10'	10°	COLLAR DIP				
134.50 - 134.65	75	60	60 40	10' x 10'	10'	10°	ELEVATION				
134.65 - 134.82	60	40	60 40	10' x 10'	10'	10°	LENUTI				
134.82 - 134.95	40	30	60 40	10' x 10'	10'	10°					
134.95 - 135.10	30	20	60 40	10' x 10'	10'	10°					

ASSAYS

DIAMOND DRILL LOG

W.A. HUBACHECK CONSULTANTS LTD.
TORONTO ONTARIO CANADA
MINERALOGY STRUCTURE ALTERATION
COMPANY PROPERTY COMMENCED COMPLETED OBJECTIVE

INTERVAL	FROM	TO	ROE %	LITHOTYPE	DESCRIPTION	SAMPLE NO.	FROM	TO	LENGTH	ASSAY
					GEOLOGY (colours, grain size texture mineral, alteration etc.)					
NTS					CORE SIZE					
DISTRICT					CONTRACTOR					
TWP /LAT / LONG					DATE LOGGED					
CLAIM					LOCATED BY					
CO ORDINATES					DDH COMMENTS					

INTERVAL	FROM	TO	ROE %	LITHOTYPE
30 5	143.39	143.82	3%	

30% sericitic alteration 10% chlorite alteration, and 25% Qtz CaCO₃ alteration, also potassiac Qtz veins (pink orange) crosscut foliation 50° to CA, as do CaCO₃ quartz veins at 30-90° to CA.

134.61-137.42, 138.95-139.14, 139.36-140.10, 141.19-141.28, 141.90, 142.30-142.13

Very blocky poor recovery (influence most likely from the Misema Fault). Fragments are mm-4cm in size but average 2cm.

143.39-143.82 - contact aureole with underlying kimberlite, highly altered and chilled, a dk. black colour, with increased magnetism (up to 3.21 x 10⁻³ SI units)

A couple kimberlite injection cavities

Highly fractured, at first silicified but towards contact it is chloritized, remnant altered (sericitized) greywacke textures are still visible

CaCO₃ veinlets cross entire sub unit. Sharp lower contact but at 20° to CA as smaller kimberlite above was many chlorite filled micro fractures in a crackle breccia type pattern.

Dk. green black, v. fn. grained matrix which is a med. (yellow green colour) grey colour and is v. fn. grained and crystalline made up of serpentine, CaCO₃, phlogopite although the rock is not that soft.

Olivines are set in this matrix and are mostly round, some are perfect octahedrals while others are angular, they are altered to a dk. brown or black from light green unaltered version, there is a total of 30-50% (Av. 40%) ranging in size from 1mm to 1cm averages of 3-4mm, evenly distributed. A total of 10x 1-2mm & the other 30-40x 2mm-1cm. Dk. brown to black olivines seem to occur most frequently around serpentine veins and selenite veins and CaCO₃ veins (all veins nrc< 5mm) and the veins likely cause the dark

143.82 150.40 99 90 Hypabyssal
Kimberlite Dyke

W.A.
GRAPHIC
LOG

DIAMOND DRILL LOG

W.A. HUBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO CANADA

STRUCTURE
ALTERATION
MINERALIZATION

LITHOLOGY
FROM TO
M F P R %
ROE

INTERVAL
COMPANY
PROPERTY
COMMENCED
COMPLETED
OBJECTIVE

NTS
DISTRICT
TWP / LAT LONG
CLAIM
CO-ORDINATES
DDH COMMENTS

CORE SIZE
CONTRACTOR
DATE LOGGED
LOGGED BY

SURVEY
DEPTH
DIP
AZIMUTH
COLLAR AZIMUTH
COLLAR DIP
ELEVATION
LENGTH

MINERALS
ALTERATION
STRUCTURE
LITHOLOGY

DESCRIPTION

AEOLOGY (colour, grain size, texture, mineralization etc.)

Tr-1% py seen diss. throughout and along epidote and
CaO₃/qtz. veinlets
Hematite epidote veins with hematized holes, veins < 5mm,
halos 5mm each side at 50-90° to CA.
-SI=40-60, many amphiboles have been altered to chlorite.
Common jointing angle at 70° to the CA at 158m, 60° to the
CA at 161m, 60° to CA and 166m and 60° to CA at 168.6m,
most having chlorite and/or hematite smears on the fracture
planes.

168.72

E.O.H.

ASSAYS

SAMPLE
No. FROM TO LENGTH % G.U.L.

Hole No. FL-92-26 PAGE 6 9

DIAMOND DRILL LOG

SCALIC
GRAPHIC
TOU
STRUCTURE
LITHOLOGY
MINERALIZATION
ALTERATION

W.A. HUBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO, CANADA

COMPANY	Sudbury Contact Minerals	32 D/4	CORE SIZE	NQ	CONTRACTOR	Heath & Sherwood	DATE LOADED	Nov. 28/92	DEPTH	DIP	AZIMUTH	HOLE NO.	FL-92-27-B	AGE
PROPERTY	Diamond Lake (#185)	DISTRICT	Larder Lake						70.12	55°20'		COLLAR AZIMUTH	270°	
COMMENCED	Nov. 22/92	TWP/LAT LONG	McVittie						93	55°20'		COLLAR DIP	-65°	
COMPLETED	Nov. 27/92	CLAIM #	824170	DAUBER BY	D.W. Christie				113.7	56°	279	ELEVATION	285	
OBJECTIVE	MAG HIGH-RESISTIVITY	CO-ORDINATES	L 1+00S 2+62E	DDH COMMENTS					LENGTH			LENGTH	113.70	
INTERVAL	0	0	LITHOTYPE		DESCRIPTION	GEOLOGY (colour/grain size/texture/minerals/alteration etc.)			SAMPLE			ASSAYS		
FROM	0	TO	%	/					NO.	FROM	TO	LENGTH	% SUL	

70.25 86.12 60 40 Siltsstones
to Greywacke - Sections have been altered by sericitic and have a slight
(sandstone) yellow beige colouration, and usually are the finer grained
sections.
- Homogeneous, with a weak foliation seen locally at 40°
to C.A. at 73m, but convoluted, possibly bedding with
soft sediment deformation as it also appears only in the
v. fine siltstone.
- Qtz veins, ptygmatically folded up to 3cm wide usually
with CaCO₃ (ie 76.56-77.0), only 1%
- Crackle brecciation fractures filled by qtz-CaCO₃ veinlets
5% at many angles.
- Non magnetic, tr-1% pyrite finely disse. often seen in
areas of finer beds and sericitic alteration
- Chlorite/sericitic alteration on fracture planes. Very
blocky throughout, with sections of centimetric to millimetric
rock fragments.

86.12 86.50 100100 Hypabyssal
Facies -Dk. green brown with white CaCO₃, throughout
Kimberlite -Upper contact v. sharp. at 38° to CA, marked by CaCO₃ veinlets
Brecchia lower contact at 35° to CA and also sharp marked by a
1.8cm wide olivine rich band.
- 15% clasts of country rock, some temiskaming sediments and
volcanic, most are dk. grey to black in colour. Usually
v. angular but locally sub rounded, up to 3cm, but
average 1cm.
- 20-25% olivine, rounded, often as pellet-like lappilli with
kimberlite halos, (1cm, Ave. 3mm) - locally, altered
to serpentine.
- Ilmenite, phlogopite and garnet xenoliths without rims up
to 2cm in length. 2% ilmenite, 5-10% phlogopite (sometimes

DIAMOND DRILL LOG

BLAIF
GRAPHIC
LOG

METHODOLOGY
STRUCTURE
ALTERATION
MINERALIZATION

W.A. HUBACHECK CONSULTANTS LTD.

TORONTO ONTARIO, CANADA

INTERVAL	FROM	TO	DEPTH	LITHOTYPE	DESCRIPTION	SAMPLE NO	FROM	TO	LENGTH	% BUL.	ASSAYS
87.84	88.17	90	10	Siltstone	- Magnetic quality varies from 2-15x10 ⁻³ SI units						
				Breccia with fine Grained Kimberlite	- Grey to Green Grey						
				Kimberlite	- 1mm-5cm clasts of siltstone with green chloritic kimberlitic material infilling fracture (30%)						
				Infilling	- Greywacke/siltstone fragments are extremely altered via sericite, chlorite, and CaCO ₃						
				Breccia	- Moderately magnetic (1.5 x 10 ⁻³ SI units)						
				Fracture	- Some clasts are rounded, (possibly suggesting rotation in what may be the Misema Fault Zone)						
					- Rock falls apart V. easily.						
87.17	89.34	90	50	Qtz	V. Fine Grained, dk. grey - white						
				Sericite	- Most of matrix is white + grey qtz. with sericite alteration						
				Altered	- on fractures at 0°, 30°, and 90° to the CA, blocky section						
				Siltstone /	- from 88.82-89.34 (mm-cm fragments)						
				Greywacke							
				Carbonatized V.	- Fine Grained, light to med. Gray						
				Crackle	- CaCO ₃ filled crackle fractures at all angles to the C.A.						
				Brecciated	- Sharp contacts, upper contact at 60° to CA						
				Chill Zone	- Non magnetic, magnetic lower contact V. sharp but not that of						
				Underlying	- Coarsening to lower contact, diabase texture becoming visible.						
				Diabase	- No V.S.						
				Altered	- Dk. grey to green, fn. to med. grained						
				Diabase	- CI=0-60						
				Dyke	- Mafic constituents include hornblende, chlorite alteration of the hornblende						
					- Feldspar and minor qtz makes up the felsic constituents.						
					- Alteration of feldspars has given sericite locally.						
					- Also epidote is present as a minor constituent.						
					- Minor qtz-CaCO ₃ veinlets at angles from 0-90° to CA.						
					- Intergranular diabase texture.						

DIAMOND DRILL LOG

STRUCTURE MINERALIZATION ALTERATION

W.A. HUBACHECK CONSULTANTS LTD.

TORONTO ONTARIO CANADA

COMPANY	NTS	CORE SIZE	SURVEY DEPTH	DIP	AZIMUTH	HOLE NO. FL.
PROPERTY	DISTRICT	CONTRACTOR				COLLAR AZIMUTH
COMMENCED	1WP / LAT LONG	DATE LOGGED				COLLAR DIP
COMPLETED	CLAIM	LOGGED BY				ELEVATION
DISPENSED	CO-OP COMMITTEE	OWN COMMENTS				REMARKS

SURVEY	DIP	AZIMUTH	COL
DEPTH			COL

LITHOTYPE	RBD	REC	INTERVAL	M	F
				<input checked="" type="checkbox"/>	<input type="checkbox"/>

ENCARTES

বাংলাদেশ

AGAWA

- Hematite staining and alteration on fractures is pervasive also seen associated with CaCO_3 Qtz veins
- Grain Size varies as does rock colour and colour index.
- Very magnetic (25×10^{-3}) tr-12 py finally diss.
- Consistent fracture (joint) pattern at 30-60° to the CA., another weaker one at 30° to CA
- Stringer CaCO_3 content down hole in veinlets.

20H



Ministry of
Northern Development
and Mines

Ontario

Report of Work Conducted After Recording Claim

Mining Act

Decision Number:

9480-00156

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Sudbury, Ontario, P.O. Box 645, telephone (705) 670-7284.

- Instructions:**
- Please type or print and submit in duplicate.
 - Refer to the Mining Act and Regulations for Recorder.
 - A separate copy of this form must be completed for each Work Group.
 - Technical reports and maps must accompany this form in duplicate.
 - A sketch, showing the claims the work is assigned to, must accompany this form.



32004NW0041 W9480-00156 GAUTHIER

900

Recorded Holder(s)		Client No.
Sudbury Contact Mines Ltd.		198617
Address		Telephone No.
401 Bay St., Suite 2302, P.O. Box 102, Toronto, Ont.		(416) 947-1212
Mining Division		Township/Ves
Larder Lake		Gauthier and McVittie
Class	From:	To:
Work Performed	June 1992	December 1992

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	
<input checked="" type="checkbox"/> Physical Work, Including Drilling	Diamond Drilling
Rehabilitation	
Other Authorized Work	JUN 27 1994
Assays	
Assignment from Reserve	RECEIVED

Total Assessment Work Claimed on the Attached Statement of Costs \$ 15,507.38 150738

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
David W. Christie	141 Adelaide Street W., Suite 603 Toronto, Ontario
W.A. Hubacheck Consultants Ltd.	M5A 3L5
Heath & Sherwood Drilling	54 Duncan Avenue, Kirkland Lake, Ontario

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.

Date
April 4/94

Recorded Holder or Agent (Signature)

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying

David W. Christie, 141 Adelaide St. W., Suite 603, Toronto, Ontario M5A 3L5

Telephone No.

(416) 364-2895

Date

April 4/94

Certified By (Signature)

For Office Use Only

Total Value Cr. Recorded <i>RECEIVED \$51414</i>	Date Recorded <i>APRIL 6/94</i>	Mining Recorder <i>Tom Gauthier</i>	Received Stamp <i>LARDER LAKE MINING DIVISION</i>
Deemed Approval Date <i>JULY 5/94</i>	Date Approved <i>JUNE 20/94</i>		APR 6 1994
Date Notice for Amendments Sent			

Work Report Number for Applying Reserve	Claim Number (see Note 2)	Number of Claim Units	Value of Assessment Work Done on this Claim	Value Applied to the Claim
L34740	1	1	6649	6649
L34739	1	1	18019	12006
L31367	1	1	16922	12000
L859153	1	1	16206	4206
L799524	1	1	1679	1679
L821928	1	1	18791	12000
L821910	1	1	2126	12000
L884026	1	1	6996	6996
L801144	1	1	20269	12000
L119280	1	1	18881	8269
L1186217	15	15	1950	12000
L1186216	16	16	428	6881
L1186259	1	1	428	
L1186484	1	1	5177	
L1180461	12	12	855	
L1180462	2	2	\$1,157.38	
	16	5		

Total Number of Claims

Total Value Work Done

Total Value Work Applied

Total Assigned From Previous Page

Total Reserve

Value Assigned From This Claim	Value Applied to the Claim	Reserve: Work to be Claimed at a Future Date
6649	6649	6019
12006	12000	4922
12000	12000	
4206	4206	
1679	1679	
18791	12000	6791
2126	12000	
6996	6996	
20269	12000	
18881	8269	
1950	12000	
428		
428		
5177		
855		
\$1,157.38		

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to prioritize the deletion of credits. Please mark (✓) one of the following:

- Credits are to be cut back starting with the claim listed last, working backwards.
- Credits are to be cut back equally over all claims contained in this report of work.
- Credits are to be cut back as prioritized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.

Signature

J. D. G. M.

Date

17/11/94

F5/10 fax



Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction
DOCUMENT No.

W 9480 • 00156

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'œuvre		
	Field Supervision Supervision sur le terrain	32250	32250
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert- conseil	Type Diamond Drilling	99,695.62	
	Drafting	4000.00	
			103,695.62
Supplies Used Fournitures utilisées	Type Supplies	1,225.15	
			1,225.15
Equipment Rental Location de matériel	Type Equipment Rental	1,199.51	
			1,199.51
Total Direct Costs Total des coûts directs		138370.28	

2. Indirect Costs/Coûts indirects

* * Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type Truck Rental	4318.67	
			4318.67
Food and Lodging Nourriture et hébergement			8049.52
Mobilization and Demobilization Mobilisation et démobilisation			8049.52
Sub Total of Indirect Costs Total partiel des coûts indirects			12368.19
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excède pas 20 % des coûts directs)			12368.19
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)			150738.47
Value totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)			

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
	x 0.50 =

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Evaluation totale demandée
	x 0.50 =

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as Project Geologist (Recorded Holder, Agent, Position in Company) I am authorized

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)
à faire cette attestation.

Signature	Date
	April 4/94

D
—
W
—
G
W

MCALLISTER

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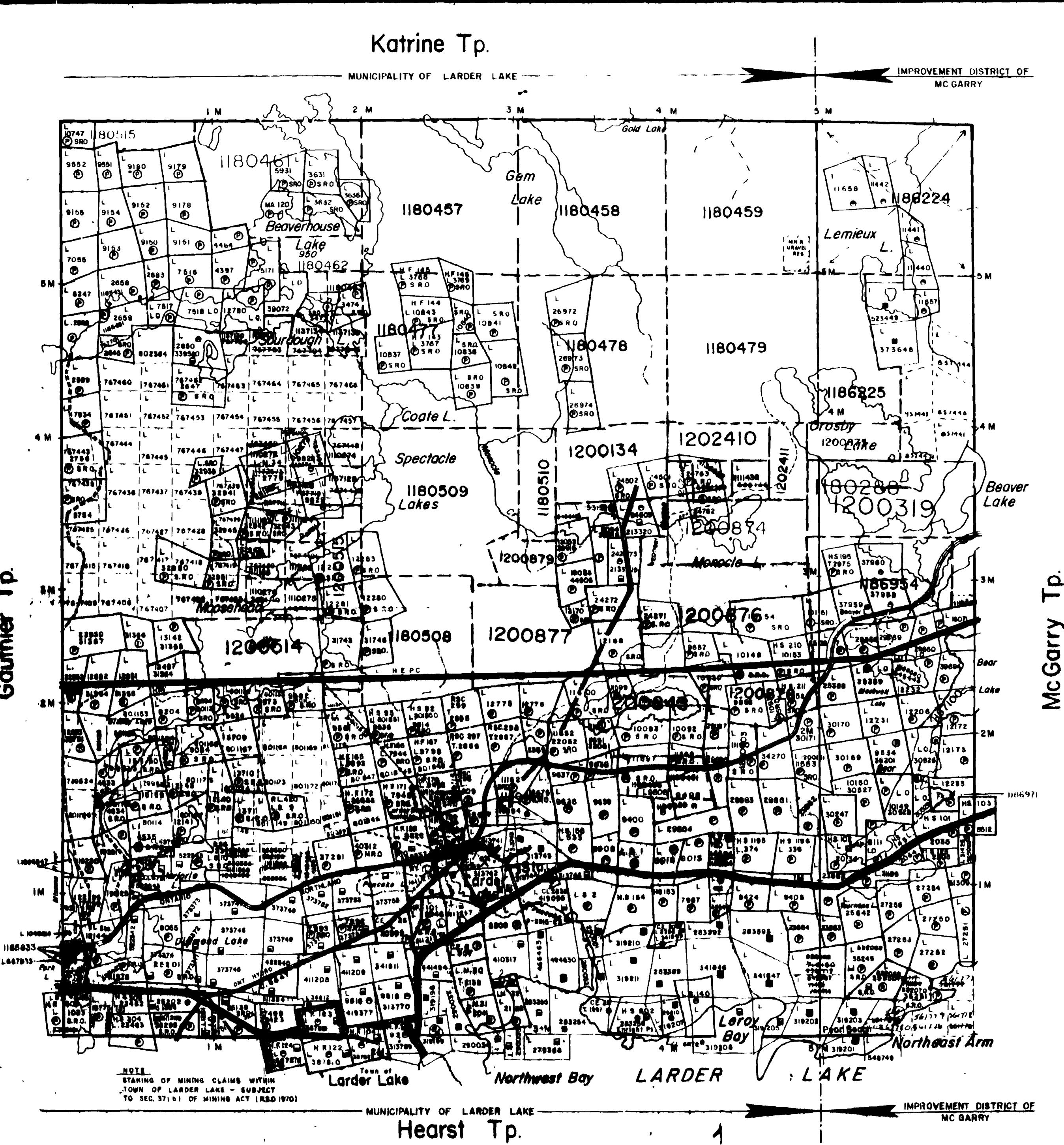
Katrine Tp.

MUNICIPALITY OF LARDER LAKE -

IMPROVEMENT DISTRICT OF
MC GARRY

Gauthier Tp.

McGarry Tp.



LEGEND

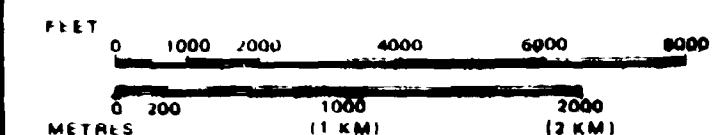
HIGHWAY AND ROUTE NO	
OTHER ROADS	
TRAILS	
SURVEYED LINES	
TOWNSHIPS, BASE LINS, ETC	
LOTS, MINING CLAIMS PARCELS, ETC	
UNSURVEYED LINES	
LOT LINES	
PARCEL BOUNDARY	
MINING CLAIMS ETC	
RAILWAY AND RIGHT OF WAY	
UTILITY LINES	
NON PERENNIAL STREAM	
FLOODING OR FLOODING RIGHTS	
SUBDIVISION OR COMPOSITE PLAN	
RESERVATIONS	
ORIGINAL SHORELINE	
MARSH OR MUSKEG	
MINES	
TRAVERSE MONUMENT	

DISPOSITION OF CROWN LANDS

<u>TYPE OF DOCUMENT</u>	<u>SYMBOL</u>
PATENT SURFACE & MINING RIGHTS	P or ●
" SURFACE RIGHTS ONLY	S or ○
" MINING RIGHTS ONLY	M or □
LEASE, SURFACE & MINING RIGHTS	L or ■
" SURFACE RIGHTS ONLY	S or □
" MINING RIGHTS ONLY	M or □
LICENCE OF OCCUPATION	L.O. or ▼
ORDER-IN-COUNCIL	O.C. or DC
RESERVATION	R or ○
CANCELLED	C or ●
SAND & GRAVEL	S.G. or ○

**NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 8
1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC
LANDS ACT RSO 1970 CHAP 380 SEC 61 SUBSEC 1**

SCALE 1 INCH = 40 CHAINS



THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

M^CVITTIE

M.N.R. ADMINISTRATIVE DISTRICT

KIRKLAND LAKE

MINING DIVISION

LARDER LAKE

LAND TITLES / REGISTRY DIVISION

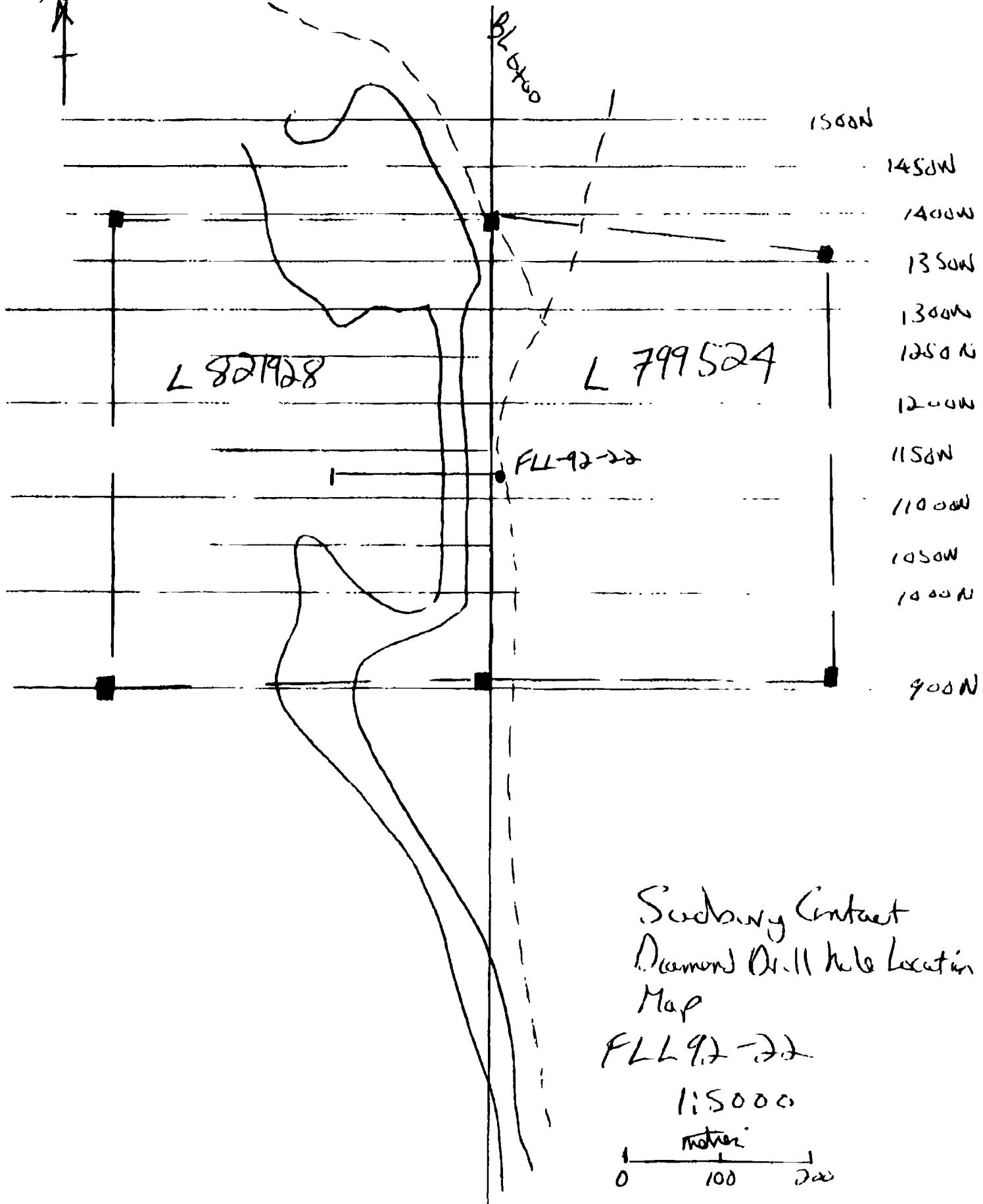
TIMISKAMING

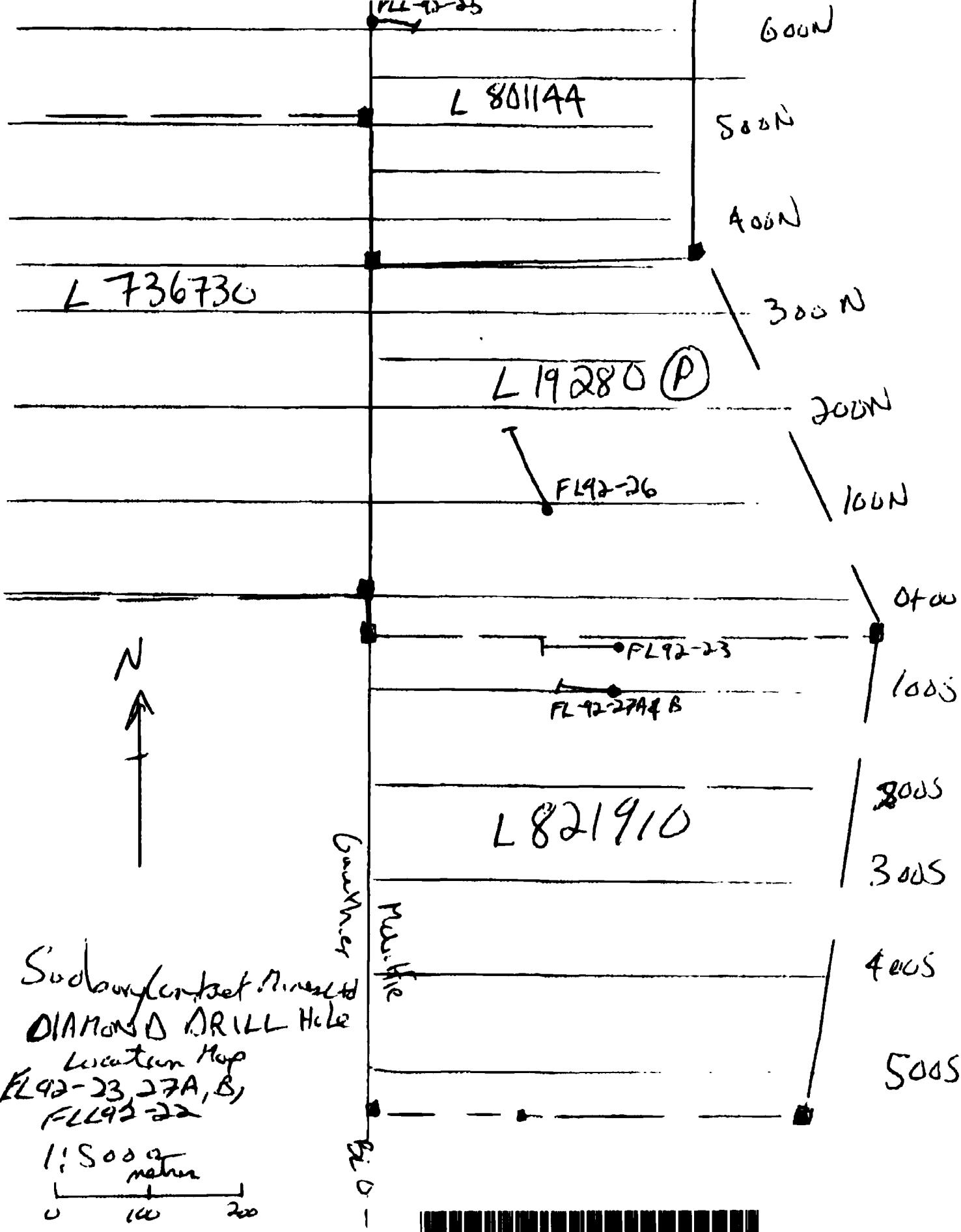


Ministry of Natural Resources **Land Management Branch**

NUMBER	G-3163
DATE	SEPTEMBER 1984

COPY OF THIS MYLAR
ARCHIVED OCT. 31, 1991
RE-INDEXED APR. 18, 1994





Sudbury Contact Minerals
DIAMOND DRILL Hole
Location Map
FL92-23, 27A, B,
FL92-22

1:5000
meters
0 100 200

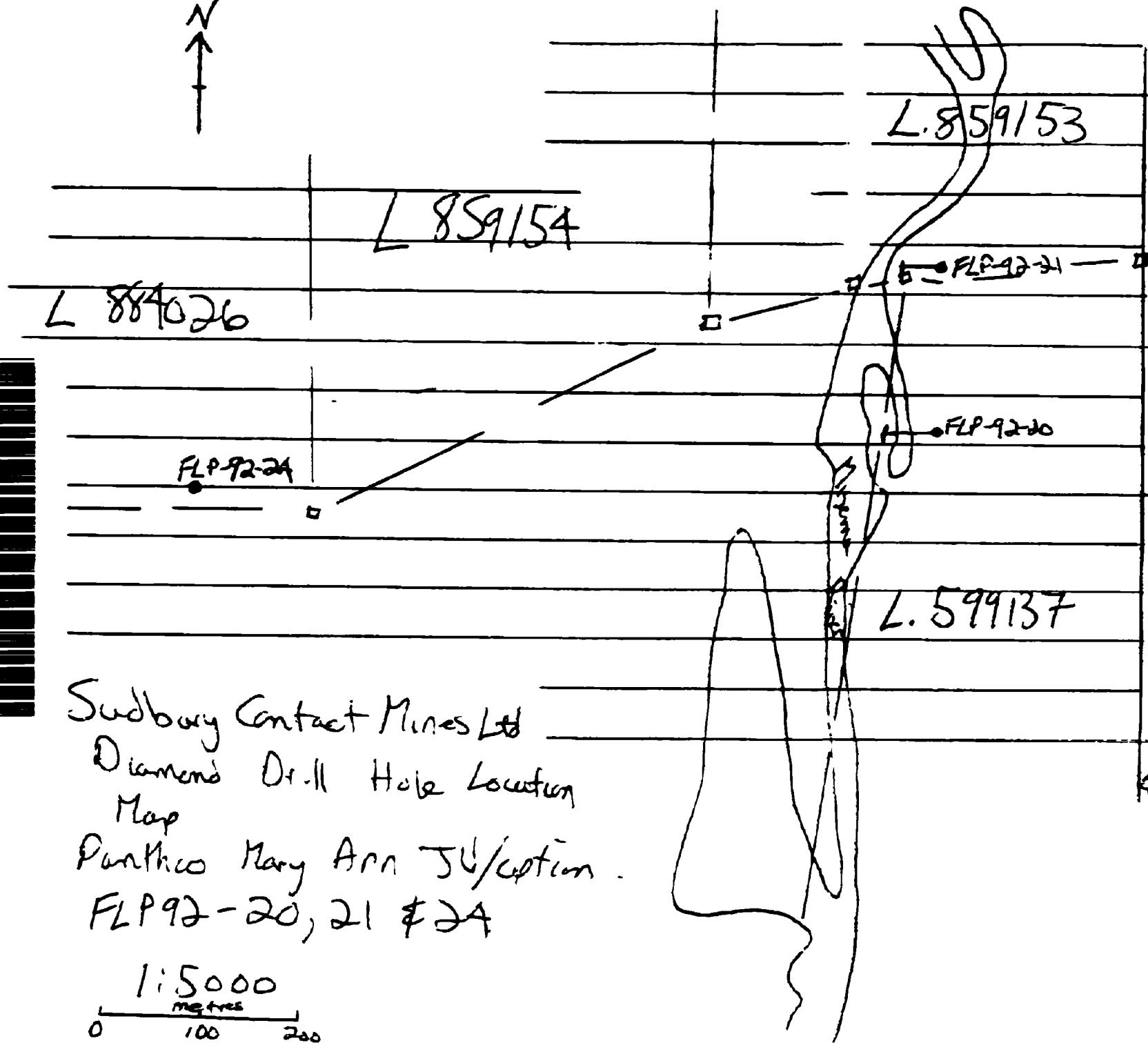


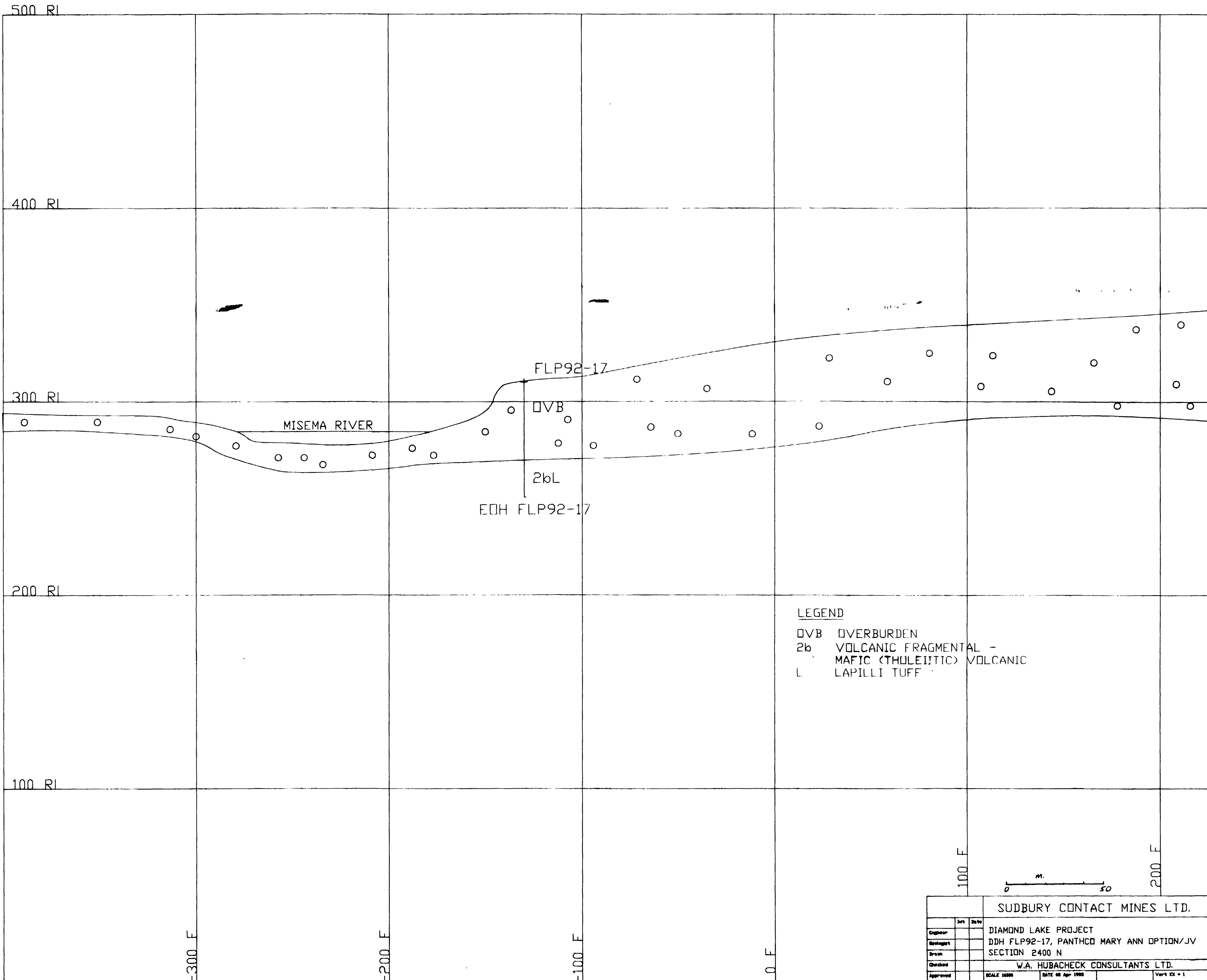
32D04NW0041 W9480-00158 GAUTHIER



250

N





500 RL

400 RL

300 RL

200 RL

100 RL

-400 F

-300 F

-200 F

-100 F

0 F

SUDBURY CONTACT MINES LTD.
DIAMOND LAKE PROJECT
DDH FLP92-18, PANTHO MARY ANN OPTION/JV
SECTION 2093 N

W.A. HUBACHEK CONSULTANTS LTD.
Approved [Signature] DATE 10 Apr 1993 Vert Ex - 1

LEGEND		
OV	B	OVERBURDEN
2b	b	VOLCANIC FRAGMENTAL - MAFIC (THOLIITIC) VOLCANICS
Fbx	x	FAULT BRECCIA
t	t	TUFF
B		BRITTLE BRECCIA/AGGLOMERATE
L		LAPILLI TUFF

FLP92-18

OV

2b

b

t

Fbx

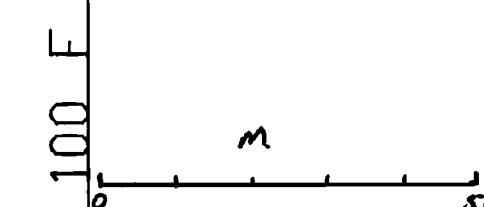
x

t

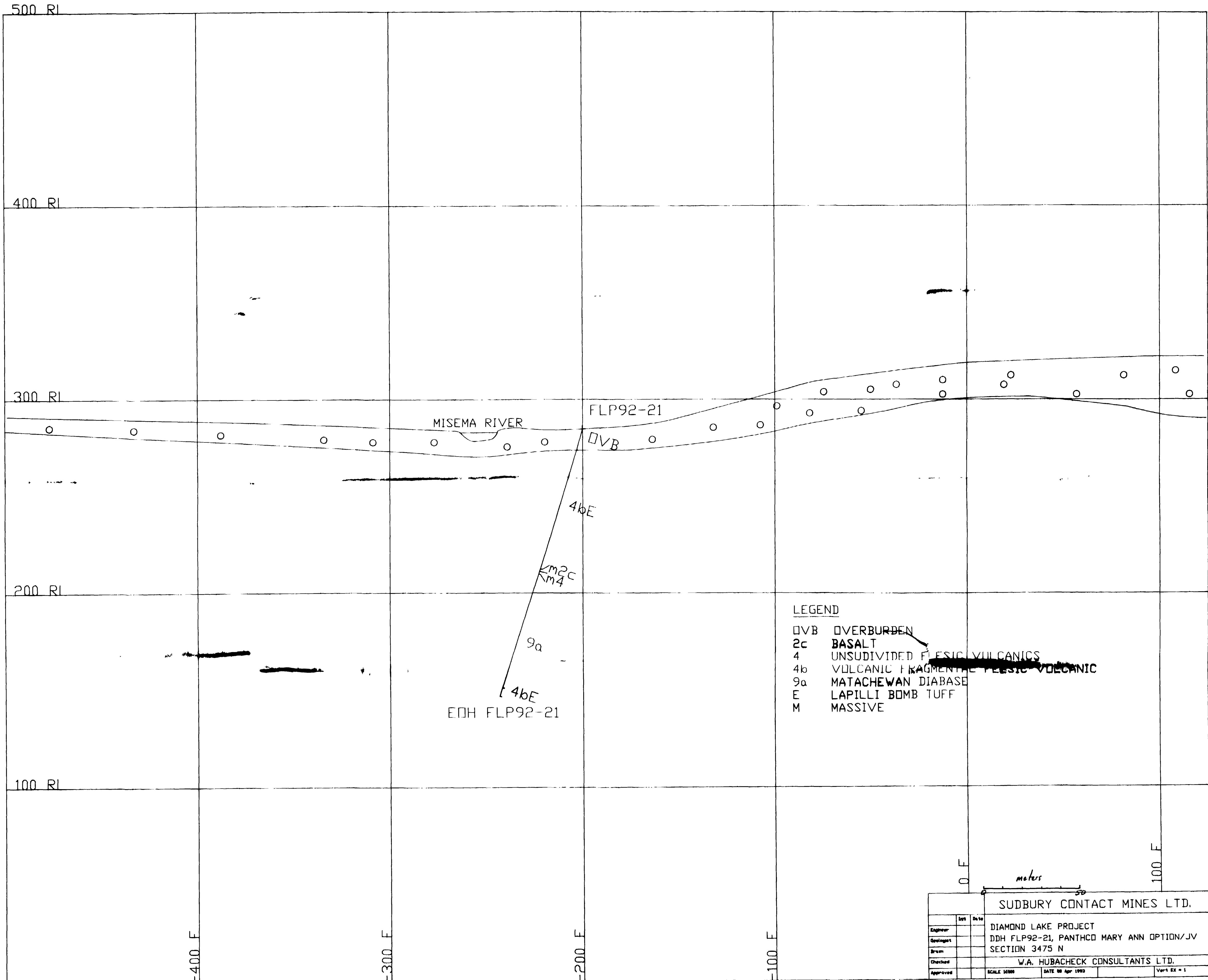
B

L

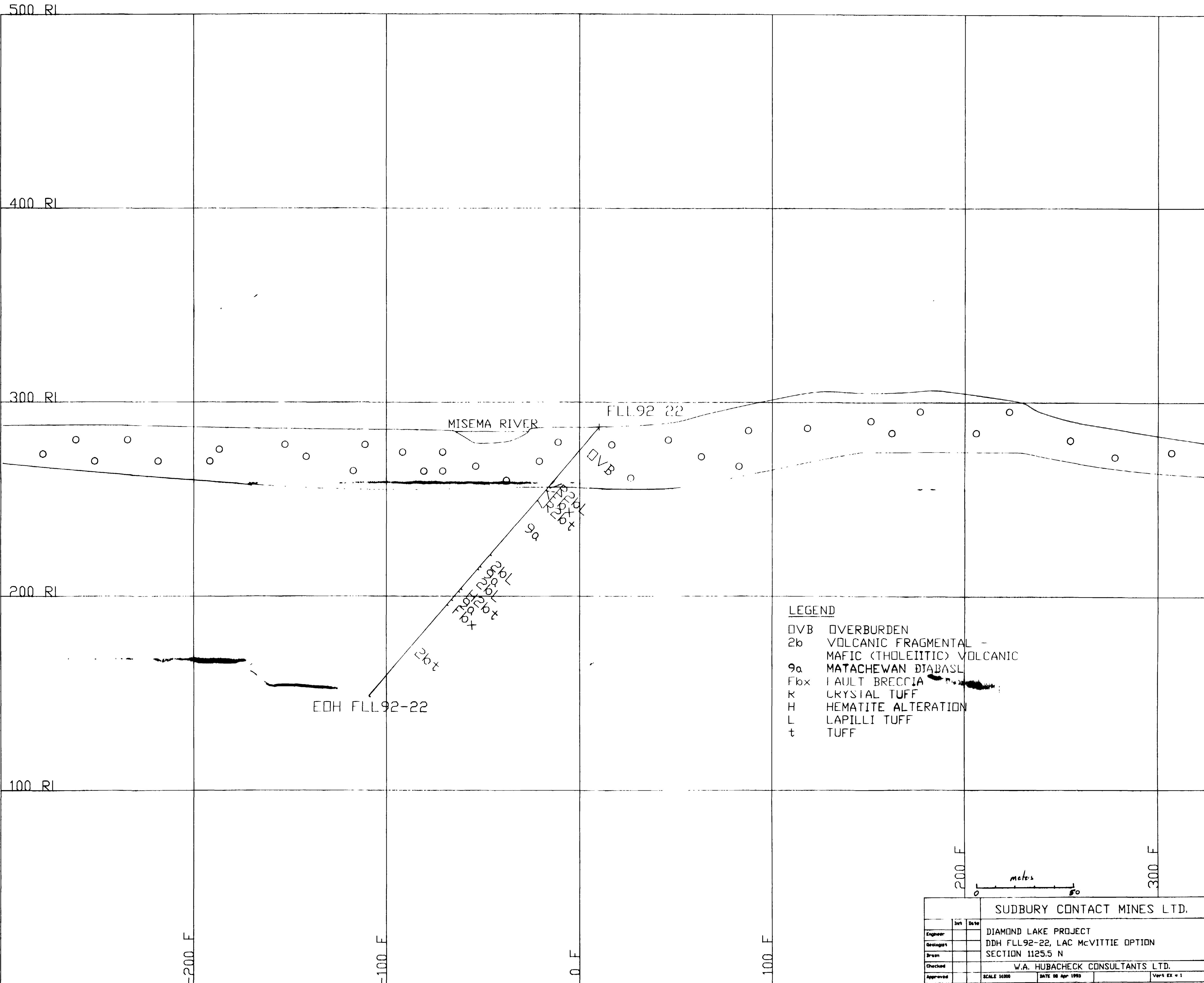
E0H FLP92-18



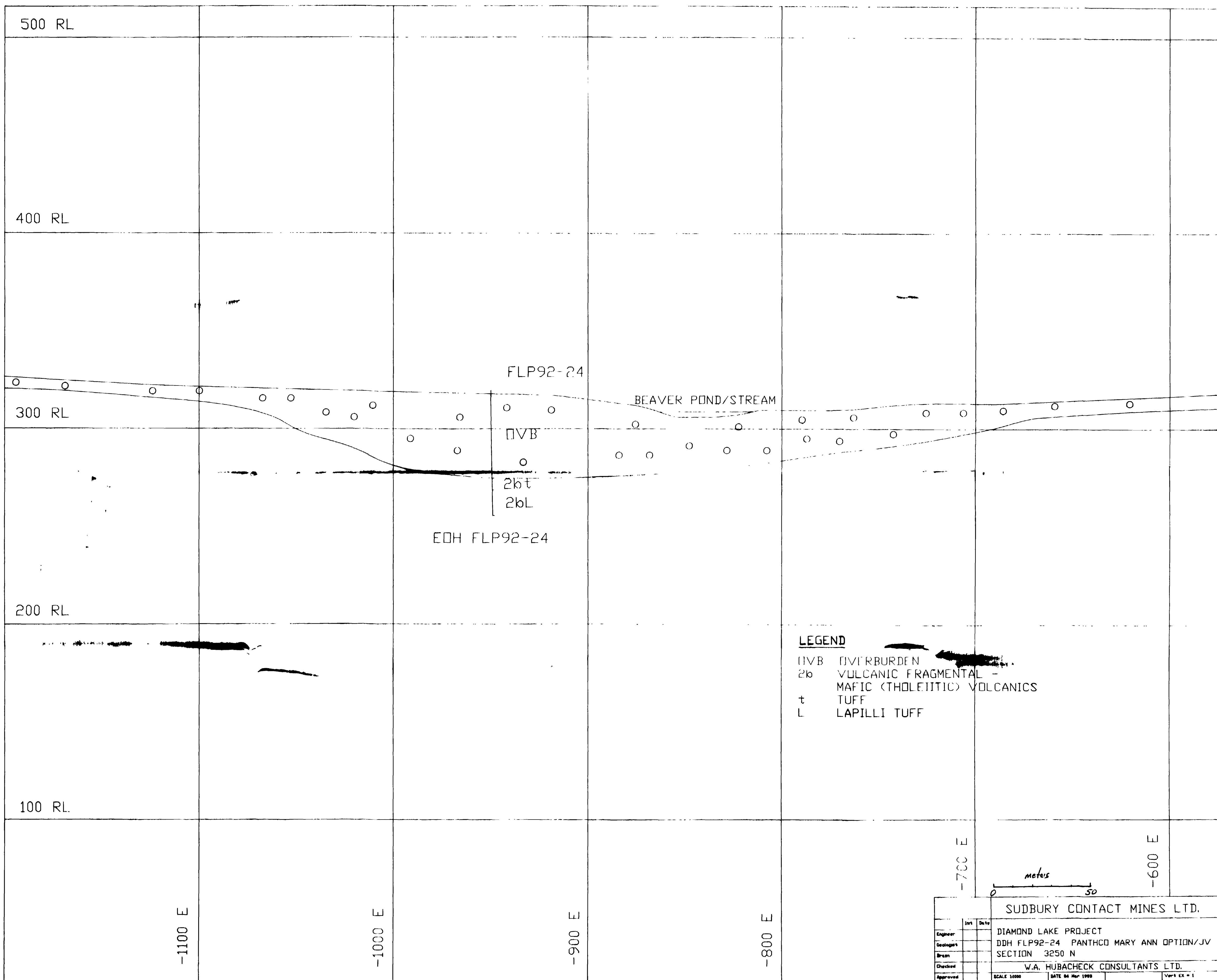
280



300



3204NW041 W48D J018 Gauthier



330

32004NW0041 W9480-00158 GAUTHIER