ASSESSMEN

010

ON THE

1993

REGIONAL TILL EXPLORATION PROGRAM

MOOSEHEAD CLAIM GROUPS

****

PREPARED BY

W. A. HUBACHECK CONSULTANTS LTD.

FOR

SUDBURY CONTACT MINES LTD.

2.15394

FILE:SC\189\5-2LO93
MARCH 28, 1994

D.R. JAMIESON B.Sc.
R. KNOWLES B.Sc.

TABLE OF C

010C

SUMMARY

Sudbury Contact Mines Ltd. is involved in the exploration of a large group of claims called "The Moosehead Project" in McVittie, Gauthier, Arnold, Katrine townships totalling 32 claims and 14040 acres. Properties K and L are the two claim blocks that were part of the Moosehead project during this exploration phase. Exploration is oriented towards diamonds and gold.

This report covers the initial phase of work, which consisted of reconnaissance Reverse Circulation drilling and surface pit sampling on both the K and L claim blocks. Data from this overburdern sampling was used in conjunction with overburden sampling data from other claim blocks to isolate specific gold and kimberlite indicator mineral glacial dispersal trains in the Diamond Lake and Moosehead Project areas.

A reconnaissance 23 hole Reverse Circulation drilling program was initiated on the claims in February, 1993, with holes generally laid out at 500 metre intervals along the southern and western portions of the claim group. Surface pit sampling was carried out during the summer of 1993, focussing on rugged terrain which is difficult to sample by Reverse Circulation drilling methods.

Results of this sampling indicate that several gold dispersal trains exist on the property, with possible gold sources ranging from 100 to 1000 metres up-ice of individual holes. Three additional Reverse Circulation holes were drilled to follow-up on one of the dispersal trains.

Kimberlite indicator mineral counts appear to gradually increase to the southwest on the Moosehead property. A dispersal train appears to be present in the vicinity of Moosehead Lake, but the transport distance is difficult to determine.

Further Reverse Circulation drilling is recommended to follow up on the kimberlite indicator and gold grain dispersal trains.

INTRODUCTION

The subject of this report is the presentation and interpretation of data from twenty-three Reverse Circulation holes drilled on the Moosehead properties during the winter of 1993, three follow-up holes drilled in the summer of 1993, and surface pit sampling done late in the summer of 1993.

The Moosehead Properties, staked in several groups since 1992, comprises 32 claims totalling 14040 acres in McVittie, Gauthier, Arnold and Katrine townships.

These claims form part of a claim block assembled during the past several years by Sudbury Contact Mines Ltd. in Gauthier, McVittie, McElroy, Katrine, Arnold & Hearst Townships, Larder Lake Mining Division, N.E. Ontario.

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

In 1989, a kimberlite dyke discovery was made by RC drilling on the Diamond Lake Option (Skead Holdings Inc.) in McVittie Township by Sudbury Contact Mines Ltd. The discovery was later confirmed by diamond drilling. In 1990, diamond drilling discovered a Kimberlite Pipe ("Diamond Lake Pipe #1") on this same property.

These discoveries represented 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. These discoveries also led Sudbury Contact to acquire the surrounding lands, and initiate a reconnaissance exploration strategy.

Reverse Circulation drilling and surface pit sampling provided a means of testing large areas of prospective terrain for both gold and kimberlite indicators.

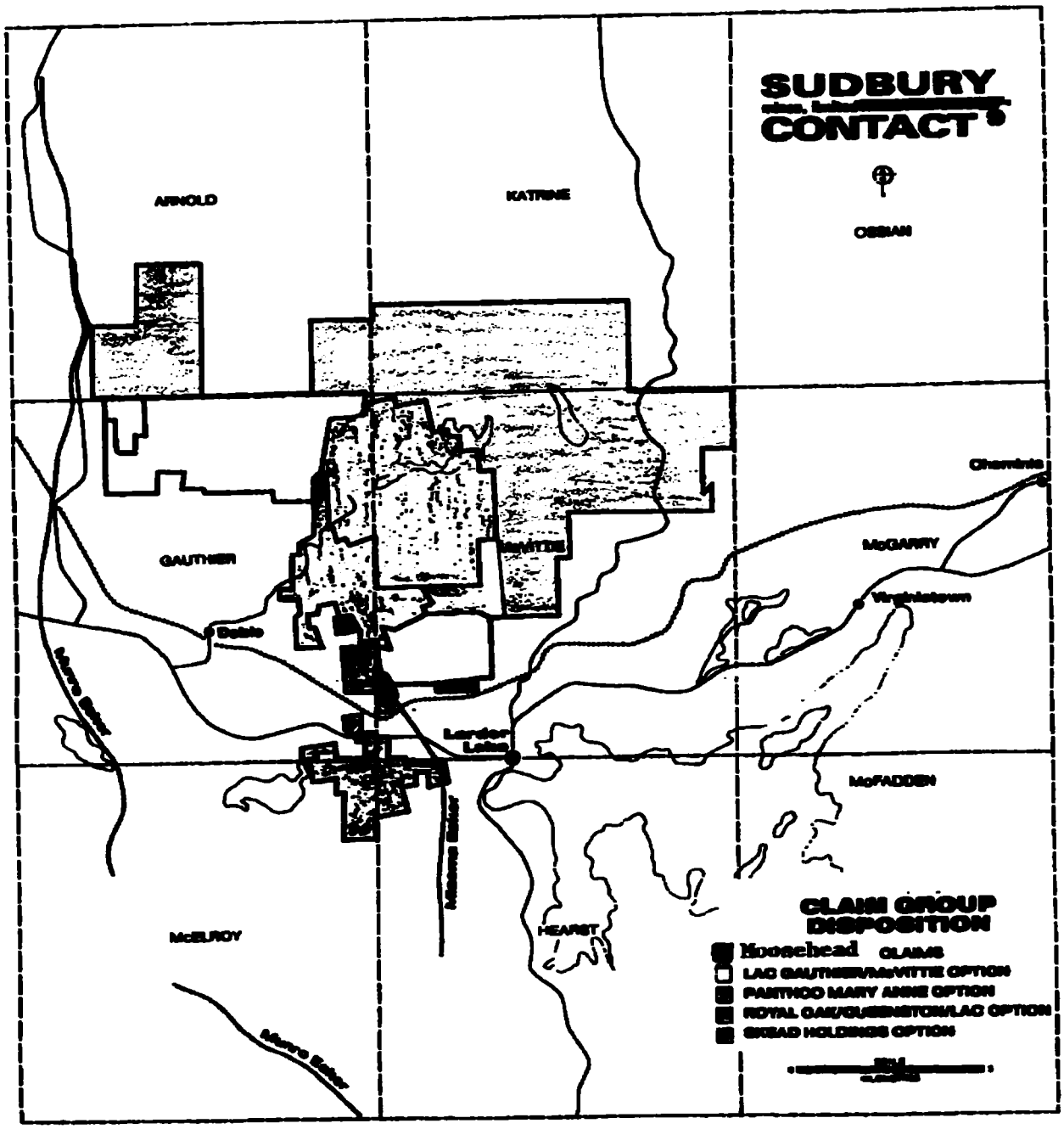
Samples were taken of till and gravel material, as well as some glaciofluvial sand. Processing to recover sand and silt size gold and kimberlite indicator minerals from these samples was done by Overburden Drilling Management.

Bedrock chips from the bottom of the drill holes were described during drilling and assayed for gold by Assayers Laboratories.

Coordination and implementation of the various technical tasks was

conducted by W. A. Hubacheck Consultants Ltd. under the supervision of P. Hubacheck, D. Christie, D. Jamieson, and R. Knowles.

DIAMOND LAKE PROJECT AREA



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

FIGURE 1

LOGISTICS

R.C. Drilling:	Heath and Sherwood Drilling Kirkland Lake, Ontario
Assay Lab:	Assayers Labs Rouyn Noranda, Quebec
Mineral Processing:	Overburden Drilling Management Nepean, Ontario
Senior Geologist:	Peter C. Hubacheck, P. Geol. 2401 Pyramid Cres. Mississauga, Ontario L5K 1E1
Project Geologist:	David W. Christie, B.Sc. 104 Douglas Ave. Toronto, Ontario M5H 1G6
Contract Geologist:	David Jamieson, B.Sc. 31 Finchurst Road Peterborough, Ontario K9J 8E9
Contract Geologist:	Ray Knowles, B.Sc 79 Thirteenth St. Etobicoke, Ontario M8V 3H5

PROPERTY AND PROJECT AREA DESCRIPTION

L property consists of 28 claims totalling 12000 acres in east-central McVittie township, southeast Arnold township and northeast Gauthier township and south Katrine township, Larder Lake Mining Division, and are numbered as follows: 1186259,1186227, 1186228, 1186229, 1180480, 1180513, 1186260, 1186261, 1180465, 1180460, 1180464, 1186223, 1186222, 1180515, 1180461, 1180462, 1180457, 1180477, 1180509, 1180508, 1180510, 1180478, 1180458, 1180479, 1180459, 1186225, 1186224, 1180463.

K property consists of 4 claims totalling 2040 acres in southwest Arnold township, Larder Lake Mining Division, and are numbered as follows: 1186217, 1186216, 1186214, 1186215.

(See appendix E for claim maps)

REGIONAL GEOLOGY

The area is dominated by the Archean Upper Super groups; Kinojevis, Temiskaming and Blake River.

The Kinojevis Group comprises Mg-rich and Fe-rich tholeittic basalts, and minor andesite, dacite and rhyodacite flows and tuffs with associated thin interflow argillites and cherts.

The Blake River Group comprises calc-alkalic basalts, andesite, dacite and rhyolite flows and tuffs, and minor related volcaniclastics. Both groups contain sills and stocks of gabbroic and dioritic affinity.

The Temiskaming Group comprises K-rich alkalic and calc-alkalic volcanics, (Mafic, intermediate, plus trachytic types and minor dacites and rhyolites), and related conglomerates, wackes and argillites.

Pyroclastic deposits are quite common, and are likely related to the various volcanic phases. The Temiskaming Group was localized within a graben between the Kinojevis/Blake River Groups located mainly to the north and the Larder Lake and Skead Groups to the south.

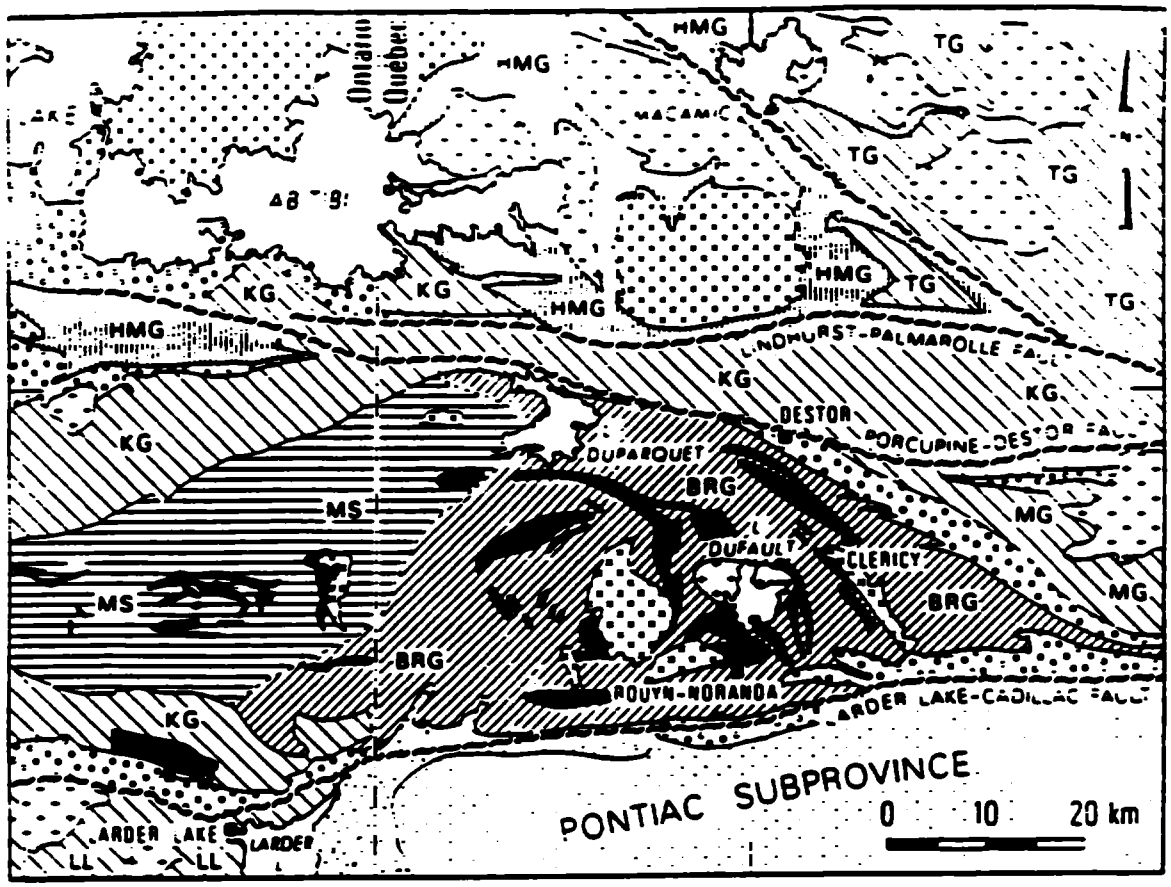
Eruptive and depositional litho-tectonic facies appear to be disconformable within these groups, with some localization of volcanics along shears and fractures possibly related to rifting and graben formation.

This active faulting along a probable rift margin was likely related to activity which produced or at least reactivated the

Kirkland-Larder Lake Fault Zone. (KLLFZ).

The region is dominated by this "break" with the Temiskaming Group lying immediately to the north or straddling the discontinuity. The other major structural feature in the region is the Blake River Synclinorium, with the area under discussion being located on it's south limb.

In most general terms, mineralization in the area and on a semi-regional scale occurs at or proximal to the Temiskaming-Larder Lake Group boundaries/time stratigraphic datums.



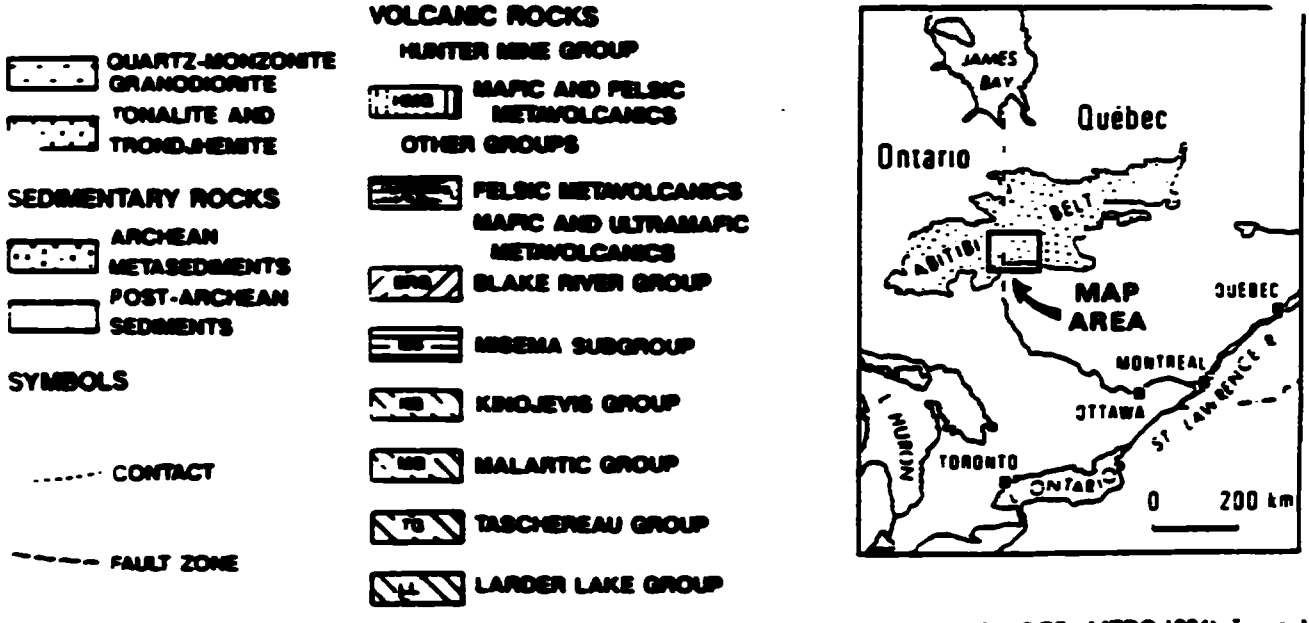


FIG. 2 Simplified geological map of the southern Abitibi belt and the Pontiac Subprovince (modified after OGS–MERQ 1984). Insert: location of the map area.

From: Lafleche and Dupuy 1992

REGIONAL QUATERNARY GEOLOGY

The landforms visible in the Kirkland Lake area today are largely the result of the latest glacial event. At least two earlier glacial events are locally preserved. Glacial striae indicate that the oldest ice sheet movement vector is approximately 240 degrees, the second oldest approximately 180 degrees and the latest approximately 165 degrees. Glacial drift from this last event is termed the Matheson Till.

Several north-south trending esker systems occur in the Kirkland Lake area, noteably the Munroe, Misema, Boundary, and Airport Eskers. These systems are composed of poorly- to well- sorted glaciofluvial sands and gravels. It is important to note that these systems can rework and remove till sheets down to bedrock near the cores of the esker, and rework and intercalate with till sheets along esker margins.

Glaciolaucustrine sediments of clay, silt and fine sand cover till and glaciofluvial sequences in low-lying areas. Large areas of fine- to medium-grained, well-sorted sand cover has developed from laucustrine wave action along esker systems with subsequent local sand dune formation.

REVERSE CIRCULATION DRILLING

The following figures help to illustrate the methodology of the Reverse Circulation Drilling technique. The purpose of sampling certain glacial materials is to locate the portions of ore-bodies that have been eroded by glaciation and distributed in a "train" down-ice from the uneroded portion of the ore-body.

Glacial action has reduced most of the material to sand and silt size, and it is grains of this size fraction which are examined for gold, sulphides and other minerals indicative of potentially economic deposits.

Case histories, Quaternary geological studies, glacial studies all provide a data base which can be used to interpret the mineralogical results from a reverse circulation drilling program.

In addition, chips of bedrock are obtained at each drill hole location, making this a valuable mapping/prospecting tool in areas of poor bedrock exposure.

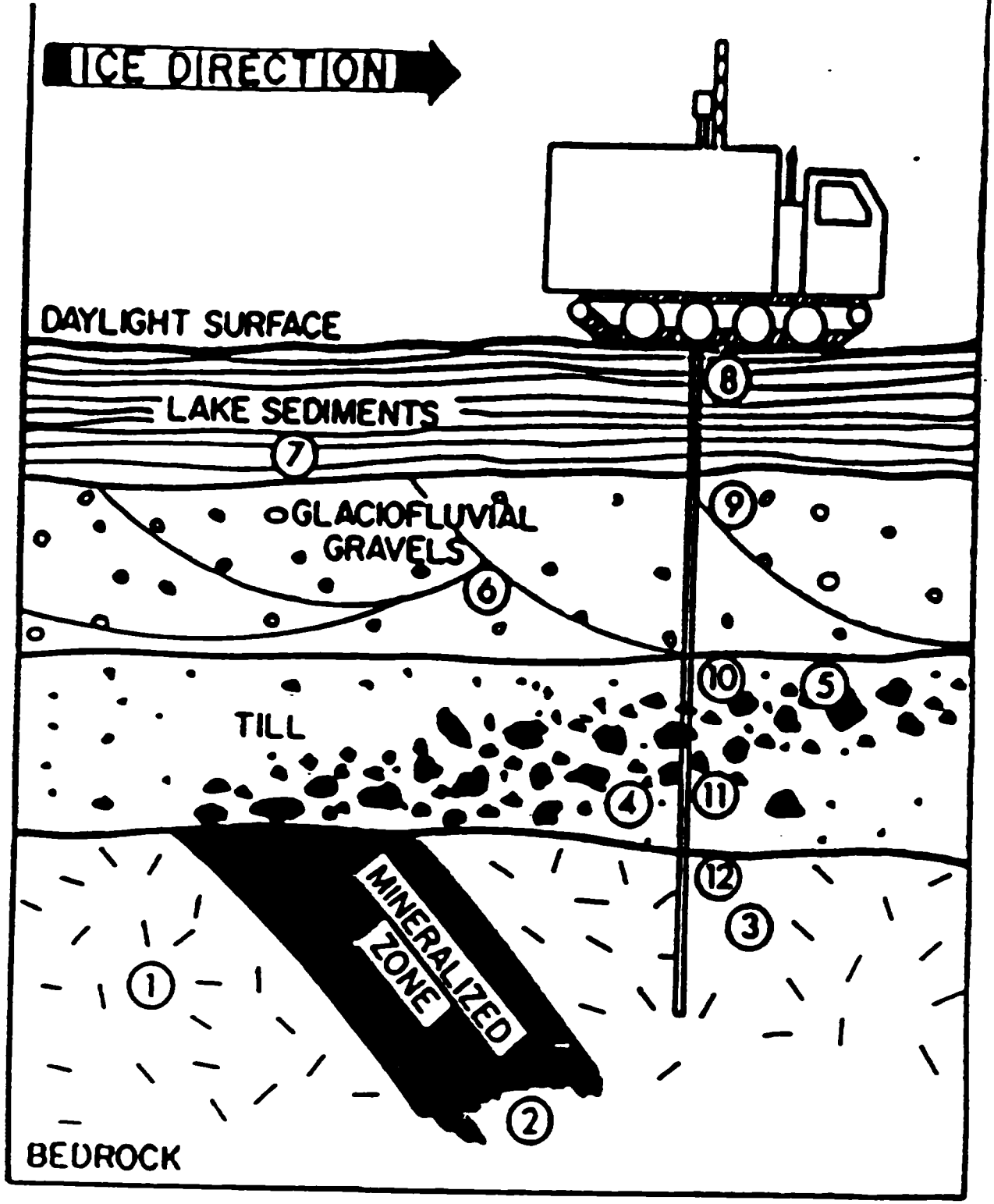
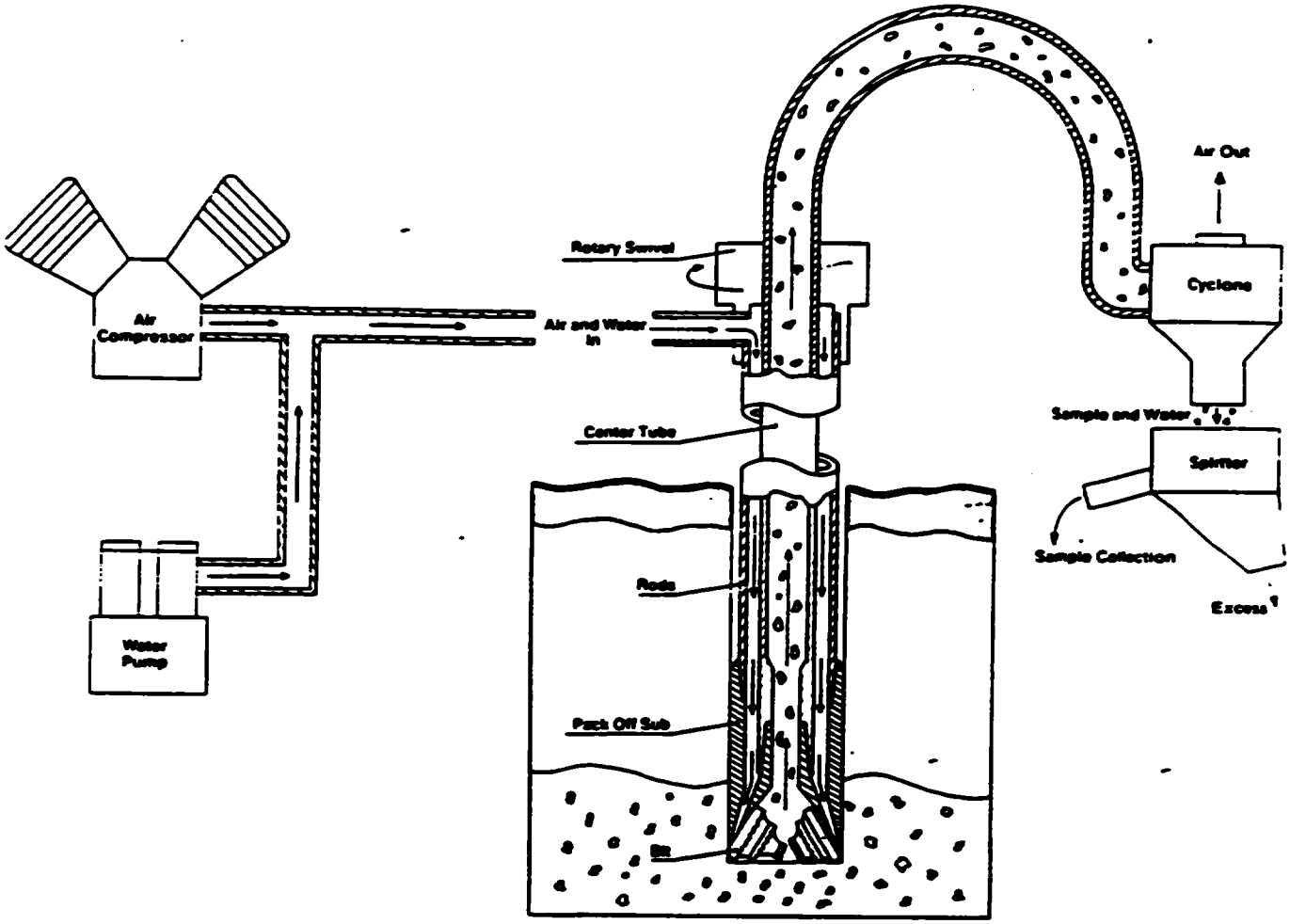


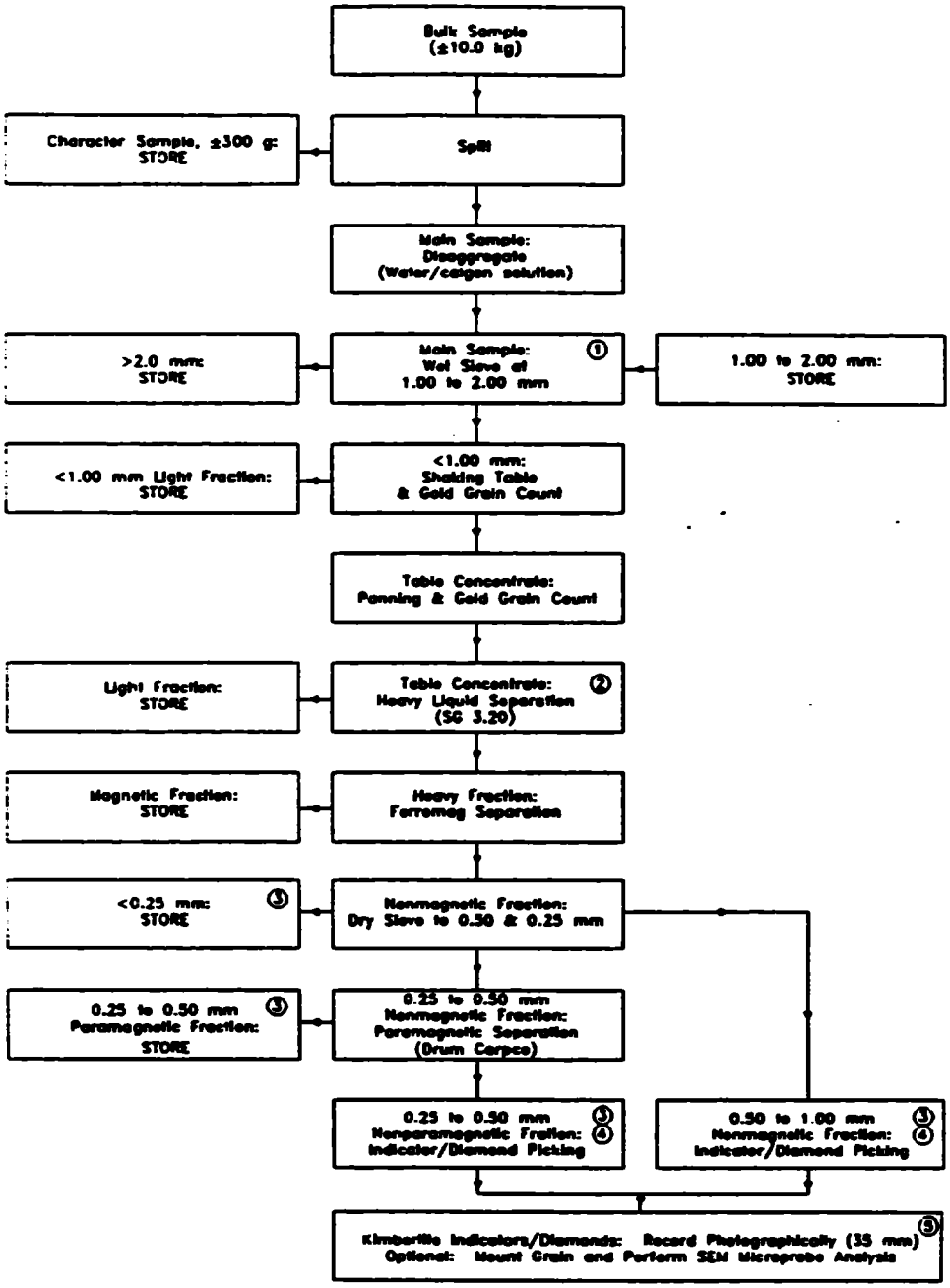
Figure 3. Idealized conceptual model illustrating the use of basal till as a prospecting medium in glacial terrain, using reverse circulation drilling as a sampling technique.

SCHEMATIC OF R.C. DRILLING METHOD



OVERBURDEN DRILLING MANAGEMENT LIMITED

FLOW SHEET 1
UNWEATHERED TILL:
DIAMOND PLUS GOLD EXPLORATION PACKAGE



Footnotes: Optional Procedures

Footnote 1 May also wet sieve at 0.50 mm followed by direct heavy liquid separation on 0.50 to 1.00 mm fraction. The <0.50 mm is tabled.

Footnote 2 Methylene Iodide may be diluted to customer specification to obtain any specific gravity <3.32.

Footnote 3 These fraction may be recombined after indicator picking and submitted for gold analysis.

Footnote 4 Indicator minerals to be picked out: Cr-diopside, purple peridotitic pyrope garnet, orange peridotitic and eclogitic garnet, picroilmenite, chromite } >0.50 mm fraction only

Footnote 5 SEM and probe work performed at extra cost.

TOPOGRAPHY

There is good bedrock exposure across most of the property, with the exception of an area west of Lemieux Lake which is covered by sand and gravel deposits derived from what a appears to be a small, isolated esker system. Significant thicknesses of intercalated till, poorly to moderately sorted sand and gravels (reworked tills?) and debris flow material occur beneath buried stream valleys and swampy areas.

The high hills immediately around Gem Lake are indicated by government maps as bedrock knob/till ground moraine over bedrock knob. The remaining area is noted as bedrock ridges with till ground moraine and channelled glacialacustrine plain.

GOLD GRAIN RESULTS

Following are hole descriptions and gold grain counts for Moosehead Project, property "L". The holes were drilled with hole LO-93-1 in the southwest corner and generally progress in order to the northeast to hole LO-93-15 in the northeast corner of the property. Holes LO-93-16 to 19 were drilled from east to west across the north portion of the property.

LO-93-3

2.5 metres of basal till occurs beneath 9.0 metres of glaciolacustrine clay. 4 round gold grains were returned from 11.2 kg of material. This represents a low background gold grain count.

LO-93-4

2.5 metres of basal till occurs beneath 7.5 metres of glaciolacustrine clay. 16 round gold grains from 10 kg of washed or reworked till in the upper half of the till section is indicative of and elevated background due to a distal gold source (>10 km up-ice). The lower half of the till section returned 0 gold grains from 1.4 kg of material.

LO-93-5

11.5 metres of gravel, reworked till and till occur beneath 1.5 metres of organics. 38 round gold grains were returned from 25.1 kg of material, distributed relatively evenly throughout the section. This indicates an elevated background level of gold grains due to a distal gold source.

LO-93-7

6.5 metres of washed and reworked till occur beneath 20.5 metres of glaciolacustrine clay and sand. 1 metre of basal till occurs beneath the reworked till. One sample in the middle of the reworked till section returned 31 gold grains, including 10 modified and 2 pristine grains from 10 kg of material. Gold grain counts in the remaining reworked till section reflect elevated background levels due to a distal gold source. The basal till section returned 5 round gold grains from 10 kg of material, indicating background levels.

A gold grain count of 19 round, 10 modified and 2 pristine from 10 kg of material would normally relect a source up-ice of 1 to 2 kilometers due to the predominance of round grains.

There appears, however, to be a distal gold source contributing round grains to the system, resulting in an elevated background. This distal source could account for the majority of round grains in this particular sample, in which case these results may reflect a more proximal gold source (500 to 1000 metres up-ice)

LO-93-8

6.5 metres of stoney or reworked till occurs beneath 3.5 metres of glaciolacustrine clay and organics. 42 gold grains including one modified grain were recovered from 34.8 kg of material. Higher gold grain counts occur higher in the till section, which is consistent with a distal gold source.

LO-93-9

13 metres of till occur beneath 14.5 metres of glaciolacustrine clay. The middle portion of the till section returned 11 gold grains, including 4 modified grains, from 19.3 kg of sample. This is similiar to results in LO-93-7, and indicates a gold source 500 to 1000 metres up-ice.

LO-93-10

2 metres of till occur beneath 7.5 metres of glaciolacustrine clay. 9 round gold grains were returned from 10 kg of material, reflecting background levels.

LO-93-11

3 metres of sorted sand and gravel occur beneath 3 metres of organic material. 3 gold grains, including one modified and one pristine grain were recovered from 10.3 kg of material. These results indicate background levels of gold grains are present in the esker material. The modified and pristine grains in esker material is difficult to interpret, but are probably not significant.

LO-93-12

One metre of orgnic material overlies bedrock. No samples were taken.

LO-92-13

10 metres of sorted sand and gravel occurs beneath 4.5

metres of glaciofluvial sand. 5 rounded gold grains were returned from 6.7 kg of material. These results indicate background levels of gold grains in this area of the esker.

LO-93-14

0.4 metres of till occur beneath 3 metres of glaciolacustrine clay. No gold grains were returned from 3.2 kg of material.

LO-93-15

6.5 metres of till occur beneath 12 metres of glaciolacustrine clay. 18 gold grains, including 13 modified and 4 pristine grains, as well as up to 2% chalcopyrite grains were recovered from 5.5 kg of material in the basal till sample. This result is indicative of a proximal gold-copper source between 100 and 500 metres up-ice. This hole was drilled in a large swamp in an area of abundant outcrop ridges.

Follow-up surface pit sampling located till in three areas. Only round gold grains were recovered in two samples approximately 1.5 kilometers due south of LO-93-15. A surface till sample 1.5 kilometers southwest of LO-93-15 returned 10 round gold grains, 4 modified gold grains and 1 pristine gold grain.

These results indicate a southwest trending dispersal train.

LO-93-16

8 metres of till and reworked till occur beneath 16 metres of glaciofluvial clay, silt and sand. The lower half of the till section may represent poorly sorted sands and gravels reworked from older local tills. This lower half of the section returned 26 gold grains, including 10 modified grains from 20 kg of sample. This indicates a gold source 500 to 1000 metres up-ice. The up-ice direction of the gold source is questionable due to the nature of the glacial material sampled.

LO-93-17

4 metres of till, reworked till, sand and gravel occurs beneath 16 metres of glaciofluvial sand and clay. The upper half of the till section appears to be a reworked till. This unit returned 20 gold grains, including 3 modified and 2 pristine grains from 10.8 kg of material. This reflects a proximal gold source 500 to 1000 metres up-ice. The lower half of the section may represent sands and gravels derived from an older till unit. Gold grain counts from this unit indicate that only background levels of gold

grains are present.

LO-93-18

9 metres of till, sand and gravel occur beneath 19 metres of glaciolacustrine clay and organics. The upper 3.5 metres of the till/sand/gravel section may represent the extent of the Matheson till. 20 gold grains, including 6 modified grains were returned from 20 kg of sample from this till section. These results are similiar to LO-93-17 and may reflect a similiar source 500 to 1000 metres up-ice. Results from the lower portion of the section indicate background gold grain levels from reworked older material.

LO-93-19

1 metre of till occurs beneath 34 metres of glaciolacustrine clay, silt and sand and glaciofluvial sands and gravels. Results indicate that only background levels of gold grains are present in till material.

LO-93-20

3.5 metres of till and bouldery gravel occur beneath 13.5 metres of glaciolacustrine clay and sand. Results indicate only background levels of gold grains are present.

Following are hole descriptions and gold grain counts for Moosehead Project, property "K". The holes were drilled from east to west across the southern part of the property.

KO-93-1

0.8 metres of sandy till occur beneath 5.4 metres of clay and fine-grained sand. No gold grains were recovered.

KO-93-2

1.0 metres of sandy cobbly till beneath 2.0 metres of clay. Five round gold grains were recovered.

KO-93-3

1.0 metre of clay overlies bedrock, with no till horizon and no samples.

KIMBERLITE INDICATOR MINERAL RESULTS

Generally, kimberlite indicator mineral counts increase from the northeast part of the property toward hole LO-93-3. Holes LO-93-3 to LO-93-20 appear to indicate background levels of kimberlite indicator minerals

Indicator counts on property K appear to represent elevated background levels, probably originating from the known pipes located to the northwest.

SURFACE PIT SAMPLING

OBSERVATIONS

<1> At sample sites, surrounding Gem Lake on NW-SE trending ridges and also sites east of Gold Lake and north of Lemieux Lake on small isolated bedrock knobs, a unique situation was encountered.

Post glacial lake levels appear to be much higher at + 335 m - 340 m rather than the normal + 300 m level found regionally. Evidence for this includes: heavy erosion of surficial deposits at the 335-340 m elevation and development of barrier bars and beach deposits at this same level, reflecting a sustained lake level; thick silt deposits below the 335 m level; relatively undisturbed + 1m till veneer covering flat hill tops and filling pockets in uneven hill tops above the 340 m level.

No surface till pit sampling effort below the 340 m level was successful in the above area. Ice directions in this area appear to be 170^0 to 190^0, although no striae were encountered.

<2> The two sample sites east of Lemieux Lake were good tills at the 320-330 m level on the lee side of small bedrock knobs, demonstrating a lower post glacial lake level.

<3> In the area east of Spectacle Lake, till was found as low as 330 m in isolated pockets on bedrock knobs where erosion was unable to penetrate. Post glacial lake levels were probably at the 330-340 m elevations. Till pit sampling was very difficult in this area, due to lower relief with few bedrock knobs above 330 m. Unless isolated pockets in the lower (320-330m) bedrock knobs could be located and till was not washed out, no sample could be obtained. Ice directions appear to be $170-180^0$ in this area.

<4> Three samples were obtained south of Moosehead Lake. In this area till was found at the + 300 m level in pockets on bedrock knobs. This situation probably reflects a lower lake level or more extensive erosion as the level of the post glacial lake decreased along with an uneven or pocketed surface to the bedrock knobs. Silt could therefore be removed and till filling pockets would be preserved. Ice directions appear to be + 180^0 in this area.

<5> Sample 15483, north of Beaverhouse Lake on the Misema River and south of Misema Lake, reflect a shallower lake level, a veneer of till sits on a bedrock flat at + 310 m elevation. However, the esker ridge top sampled south of the river

(15482) included a 10 cm lag deposit demonstrating a sustained lake level at + 340 m. Further investigation in this area would be required to resolve this situation. Ice directions appear to be 160-170^0 Az in this area as evidenced by the ramping of felsic volcanic outcrops in the area.

In general, local variations in post glacial lake levels exist across property L area, reflected by sustained erosion levels and extensive washing of bedrock knobs, deposition of gravel bars and beaches, and extensive silt deposits which are sometimes covered by 0.5 to 1 m of redeposited washed till proximal to steep bedrock knobs.

Till is well preserved above maximum lake levels, and generally at the sustained lake level, till is only found in isolated bedrock pockets or in the rare case ice deposits not buried by washed till or gravel bars/beaches at the lower end of the sustained lake level where silt begins to be preserved.

Gravel bars reflect a dominant paleo wind direction out of north and north-west and therefore form on the lee or south to south-east side of the bedrock knobs. As a result, most lee till deposits at this critical elevation are buried.

Ice directions are variable from 160 to 190^0 reflecting local relief as well as regional trends. Till pit sampling is more or less strictly confined to bedrock knobs and ridges and is therefore probably sampling till deposits from the last ice advance directions only. Ice trend directions deduced by local topography (ramping and plucking of bedrock knobs, tails, etc.) in the absence of striae are more or less a reliable indication of transport direction on a property scale.

RESULTS AND RECOMMENDATIONS

Kimberlite Indicator Minerals

<1> Only one sample out of seven in the area east of Gold Lake and, north and east of Lemieux Lake returned any indicators. Sample 15442 contained one pyrope and one ilmenite. Ice direction from this sample site could be + 170^0. RC Drilling would be required to follow this up, due to low topographic relief immediately to the north.

A fence of four sample 1 km north of sample site 15442 returned no KIM's and therefore act as a probable cut off.

<2> There are two sets of anomalous samples in the Gem Lake area. (A) Samples 15429, 15430 and 15460 east of Gem Lake contain 4, 2, and 3 indicators respectfully. Sample 15429 contains

3 pyrope and 1 ilmenite, while sample 15430 contains 1 pyrope and sample 15460 contains 1 cr-diopside and 2 ilmenite.

Ice direction could be 170-180^0. Some limited pit sampling could be done up to 500 m up-ice in this area before having to come off the ridge and do RC Drilling in the Gold lake area. B) Samples 15431, 15479 and 15480 south of the north arm of Gem Lake contained KIM's which included 1 pyrope in sample 15431, 1 pyrope and 1 cr-diopside in sample 15479, and 1 ilmenite in sample 15480.

Ice direction here is between 170 and 190^0 approximately. There is not much hope for till sample from pit sampling up-ice from these sites, due to low topography. A circular pond exists between sample sites 15431 and 15479. A hill top south of the pond between the two sample sites could be sampled to test for indicator presence down-ice of the pond as well as verifying the results of the previous sample. Otherwise, up-ice sampling would have to be done by RC Drilling.

<3> Three samples east of Spectacle Lake returned KIM's of 1 pyrope and 1 cr-diopside in sample 15427, 1 pyrope and 1 cr-diopside in sample 15472, and 4 pyrope in sample 15473. Ice direction here appears to be 170-180^0.

Samples were difficult to obtain, due to low topographic relief. Any follow up sampling would involve RC Drilling.

<4> Sample 15483 north on the connecting lake between Misema and Beaverhouse Lakes, contained 2 pyropes. Follow up sampling in this area could be done effectively by till pit sampling, due to the topographic relief of the area and the preservations of till.

Gold Grains

Gold grain counts were sporadic, ranging from 0 to 4 grains up to 35 grains of which most were of the reshaped category. However, one instances are worthy of note, samples 15480, 15479, 15398, and 15460 contain 29, 16, 23, and 35 gold grains respectively. Most grains are reshaped but could represent a significant gold mineralization north of Gem Lake - Gold Lake.

Follow up sampling for the Gem Lake KIM results should indicate if these gold grain counts are truly significant.

Modified gold grains from sample 15427 are significant and indicate a source within 500 metres up-ice, likely due north. This may correlate with results in LO-93-7, although the material sampled in this area appears to be heavily reworked.

CONCLUSIONS

1. No follow-up drilling has been attempted to date in the vicinity of LO-93-15. Several surface samples were taken in this area, indicating a southwest trending dispersal train.

2. High counts of rounded gold grains occur on the south-central portion of the property (LO-93-4,5,7,8). Holes LO-93-7 and 9 returned significant numbers of modified gold grains half way up the till section. The till in this area may have been reworked, but there appears to be a proximal gold dispersal train (source 500 -1000 metres up-ice) superimposed on a distal gold dispersal train (source >10 km up-ice). Results from surface pit sampling also indicate a gold source in the vicinity of Monocle Creek.

3. A weak gold dispersal train may be present in holes LO-93-16, 17 and 18, north of Gem Lake. Surface pit sampling indicates sporadic, high round gold grain counts in tills 2 kilometers to the south. A distal gold source may be present, but the direction and distance up-ice of the source is unknown.

4. Kimberlite indicator mineral counts from surface pit sampling and drilling are low on the northern and central portion of the property, and appear to reflect southeast glacial transport from the distal source of known kimberlite pipes in Arnold and Morrissette townships.

RECOMMENDATIONS

A winter Reverse Circulation drilling program on and surrounding Moosehead Lake are needed to provide more detailed data on the property. Additional fences of holes north of LO-93-15, LO-93-7, LO-93-17, and LO-93-18 are recommended on a moderate priority basis.

NOTES ON INTERPRETATION OF RESULTS

The results of RC drilling programs done in 1993 have been interpreted using the following guidelines, based on personal communications with Stu Averill and the use of several references on glacial processes.

1. The weight of material or sample stated for each hole in the report refers to the table feed weight of the sample. This weight is used to normalize all gold grain counts.

2. Unless otherwise stated, all till units intersected by drilling are assumed to be Matheson till, which is generally assumed to have resulted from glaciation originating from the north-northeast.

3. For gold grains, a count of 1 round grain per kilogram of table feed material has been used as a preliminary background level for the area of interest. An attempt has been made to explain local changes in background levels and adjust interpretations accordingly. A count of 1 modified or pristine grain in 50 kilograms of table feed material has been used as a preliminary background level.

4. Generally, samples in which no modified or pristine gold grains occur, are interpreted to have no contribution from traceable gold dispersal trains and are only useful in determining background levels of round gold grains in the area, no matter how high the gold grain count is.

5. The number of round gold grains <u>above local background</u> is determined for any samples having more than one modified or pristine gold grain. Although only one or two modified or pristine grains could indicate a proximal bedrock gold source, they could also result from the disaggregation of a gold bearing boulder just up ice of the sample or tearing of gold from a boulder by the tricone bit. SEM examination of the grains can aid in determining if the latter situation has occurred.

6. The following guidelines are used to estimate transport distance of the <u>above-background</u> gold grain population:

100% pristine grains.....source <100 metres up-ice
100% modified to pristine.....source 100-1000 metres up-ice
50-100% mod. to pristine.....source 1-10 km up-ice
>50% round grains.....source probably distal (>10km)

7. The size of gold grains and the calculated or concentrate

assays are not generally a significant factor, especially in the Kirkland Lake camp.

8. For kimberlite indicator mineral counts, one grain of chrome diopside or pyrope garnet per kilogram of table feed material may be a reasonable background level. The differences between gold and kimberlite indicator mineral morphology as well as the fact that kimberlite indicator mineral tracing is in its infancy in this area, makes interpretation difficult. Statistical analyses of a large number of sample points and situations may provide a better feeling for the significance of grain counts.

BIBLIOGRAPHY

Barrie, C.Q.;
1987: Report on an Airborne Magnetic and VLF-EM Survey in the Larder Lake Area: Hearst, McElroy, Gauthier and McVittie Townships; Terraquest Ltd.

Barrie, C.Q.;
1991: Report on a High Sensitivity Magnetic and VLF-EM Airborne Survey; Larder Lake North, Gauthier, McVittie, McElroy and Hearst Townships. Larder Lake Mining Division, Ontario, for Sudbury Contact Mines Ltd., by Terraquest Ltd., Toronto, Ontario, July 15, 1991.

Easton, R.M.,Johns, G.W.;
1986: Volcanology and Mineral Exploration: The Application of Physical Volcanology and Facies Studies, Part One of Volcanology and Mineral Deposits, OGS MP 129, pp 4-40.

Fortescue et al;
1984: KLIP Basal Till Study; OGS Open File R.5506.

Hubacheck, P., Christie, D.W., Hughes, T.N.J.;
1991: Summary Report on the Larder Townsite, Diamond Lake, Wendigo Projects, May 3, 1990 to February 15, 1991. Prepared for Sudbury Contact Mines Ltd. by W.A. Hubacheck Consultants Ltd.

Hughes, T.;
1990: Summary Report on Diamond Lake - Fork Lake Project, Dec. 1989, W.A. Hubacheck Consultants.

Hughes, T.N.J.;
1991 Geological Mapping Compilation and Airborne Geophysical Assessment Report on the Diamond Lake Project Area, prepared for Sudbury Contact Mines Ltd. by W.A. Hubacheck Consultants Ltd. Nov. 1991.

Jackson, S.L., Kimmerly, C.T., Wilkinson, L.P., Xiangdong, J.;
1990: Project Unit 88-33. Southern Abitibi Greenstone Belt: Structural And Stratigraphic Studies in the Larder Lake Area, Summary of Field Work and other Activities, 1990, OGS MP 151.

Jackson, S.L.;
1988: Project Number 88-33. The Abitibi Greenstone Belt Near Larder Lake: Structural and Stratigraphic Studies, OGS M.P. 141, Summary of Field Work and Other Activities,1988, pp 206-211.

Jensen, L.S.;
1985: Synoptic Mapping of the Kirkland Lake - Larder Lake Areas, District of Timiskaming; OGS MP 126.

Jensen and Langford;
1985: Geology and Petrogenesis of the Archean Abitibi Belt in the Kirkland Lake Area; OGS MP 123.

Vickers, A.;
1992: A Logistical and Interpretive Report on VLF-EM, Magnetic and Gravity Surveys on the Fork Lake Properties, (RxR Grid) Larder Lake; by JVX Ltd., prepared for W. A. Hubacheck Consultants Ltd. on behalf of Sudbury Contact Mines Ltd.; February 1992

Webster, B. and Vickers, A.;
1992: A Logistical and Interpretive Report on VLF-EM, Magnetic and Gravity Surveys on the Diamond Lake Properties, Larder Lake; by JVX Ltd., prepared for W. A. Hubacheck Consultants Ltd. on behalf of Sudbury Contact Mines Ltd.; August 1992

CERTIFICATE

I, David R. Jamieson, of the City of Peterborough, in the Province of Ontario, Canada, do hereby certify that:

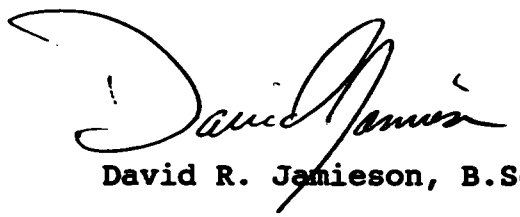
(1) I am an Exploration Geologist, residing at 31 Finchurst Road Peterborough, Ontario contracted to W.A. Hubacheck Consultants Ltd., 141 Adelaide St. West, Suite 603 Toronto, Ontario.

(2) I am a graduate of the University of Waterloo and received my Bachelor of Science degree in Earth Sciences in 1985, and have been practising my profession as an Exploration Geologist continuously since graduation.

(3) I am member of The Prospector and Developers Association of Canada, The Association of Quebec Prospectors, and The Canadian Institute of Mining and Metallurgy-Kirkland Lake Branch.

(4) This report is based on personal examination of the properties between January 1993, and August 1993.

(5) I have no personal interest in the properties or securities of Sudbury Contact.



Toronto, Ontario
March 30, 1994

David R. Jamieson, B.Sc.

W. A. HUBACHECK CONSULTANTS LTD.

CERTIFICATE

I Raymond J. Knowles, of the City of Toronto, in the Province of Ontario, Canada, do hereby certify that:

(1) I am an Exploration Geologist, residing at 79 Thirteenth Street Etobicoke, Ontario M8V 3H5, under contract to W.A. Hubacheck Consultants Ltd., 141 Adelaide St. West, Suite 603, Toronto, Ont.

(2) I am a graduate of the University of Toronto and received my Bachelor of Science degree in Geology in 1985, and have been practising my profession as as Exploration Geologist continuously since graduation.

(3) I am a fellow of the Geological Association of Canada, a member of the Canadian Institute of Mining and Metallurgy and the Prospectors and Developers Association.

(4) This report is based on personal examination of the properties in August and September 1993.

(5) I have no personal interest, either directly or indirectly in the properties or securities of Sudbury Contact Mines Ltd.

Toronto, Ontario
April 7, 1994

Raymond J. Knowles

W. A. HUBACHECK CONSULTANTS LTD.

APPENDIX A
CERTIFIED STATEMENT OF EXPENDITURES

SUDBURY CONTACT MINES LTD.
MOOSEHEAD PROJECT 1993 REGIONAL TILL PROGRAM
CERTIFIED EXPENDITURES

REVERSE CIRCULATION DRILLING

PROJECT GEOLOGIST	$250.00/DAY X 1 DAY	$250.00
CONTRACT GEOLOGIST	$225.00/DAY X 10 DAYS	$2250.00
ASSISTANT GEOLOGIST	$125.00//DAY X 9 DAYS	$1125.00
RC DRILLING	$467.00/HOUR X 61.5 HOURS	$28720.50
GAS/OIL		$201.93
EQUIPMENT PURCHASES		$ 60.03
EQUIPMENT RENTAL		$1824.29
SHIPPING		$556.64
FOOD AND LODGING		$1007.10
MOB/DEMOB		$275.00

SURFACE TILL

PROJECT GEOLOGIST	$250/DAY X 1/2 DAY	$125.00
CONTRACT GEOLOGIST	$225/DAY X 7 DAYS	$1575.00
ASSISTANT GEOLOGIST	$125/DAY X 9 DAYS	$1125.00
EQUIPMENT PURCHASED		$ 98.10
TRUCK/ATV RENTAL		$370.19
GAS/OIL		$102.34
FOOD AND LODGING		$460.10
MOB/DEMOB		$ 50.00

OVERBURDEN DRILLING MANAGEMENT

LAB COSTS	$130.00/SAMPLE X 86 SAMPLES	$11180.00
CONSULTING		$395.00
SHIPPING		$215.00
	TOTAL:	$51966.19

CERTIFIED THIS 7TH DAY OF APRIL 1994

DAVID R. JAMIESON — CONTRACT GEOLOGIST
FOR SUDBURY CONTACT MINES LTD.

W. A. HUBACHECK CONSULTANTS LTD.

APPENDIX B
REVERSE CIRCULATION OVERBURDEN DRILL LOGS

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Thrust HOLE No. LO-4
CONTRACTOR [illegible] LOCATION 5331940N 595800E
DRILLER [illegible] BIT No. CB10693 BIT FOOTAGE 13.5m
MOVE TO HOLE [illegible]
DRILL [illegible] MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE March 11 1993
OTHER CLAIM 1180508 M'Vittie Twp SHIFT 7:00am TO 5:00pm
MOVE TO NEXT HOLE [illegible] TOTAL HOURS 10
GEOLOGIST [illegible] SAMPLER G Rowley CONTRACT HOURS

DEPTH Feet / Metres	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD GRAINS Rnd	Mod	Ang	INDICATORS Bc	G P	GO
1			0-3.5 Dark Brown Clay with [illegible]						
3			3.5-6.0 Grey beige clay [illegible]						
			6-8.0 Grey beige clay with dark brown clay [illegible]						
7			8.0-9.0 Grey, v. silty clay, v. sandy.						
			9-11.5 Sandy Gravel (Chemical) [illegible] 30% Mafic Volcanic pebbles [illegible]						
9		17641	40% Sand, [illegible] greywacke (bedrock) pebbles down hole [illegible] - Feldspar Hematized Porphyry 10% (Matachewan Porphyry) [illegible] Felsic Volcanics	4	0	0	1	2	0
11		Bedrock Sample LO-4-3 fine mesh	pebbles, rare pyrite [illegible]						
13		18641	11.5-13.5 Bedrock Greywacke (Contact zone) - light grey green [illegible] - Sandy clayey [illegible] (Complete [illegible])						

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

N. Gut

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd HOLE No. LO-93-4
CONTRACTOR Heath and Sherwood LOCATION 5332150N/596300E
DRILLER Kerry La Posti BIT No. CB70693 BIT FOOTAGE 12.5m
MOVE TO HOLE 12:15 - 1:15
DRILL 1:15 - 2:00 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE March 11/93
OTHER CLAIM 1180508 M'VITTIE TWP SHIFT 7:00 TO 5:00pm
MOVE TO NEXT HOLE 2:00 - 2:35 pm TOTAL HOURS 10
GEOLOGIST D. Christie SAMPLER C. Routery CONTRACT HOURS

DEPTH Feet ☐ Metres ☒	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD GRAINS Pmd	Mod	Dd	INDICATORS Dc	GP	GO
1			0-2m Grey Clay 2-7.5m Beige Brown clay and interbedded grey clay: - no pebbles or sand - mostly grey clay after 5m return in long circulation sections.						
3									
5			7.5m-8.5m Sandy Gravel (Till?) - rounded pebble fragments 20-30% - 40% Intermediate to Mafic Volcanics (light green to gray green to dk green) - 10-20% Porphyry (felsic-ani), often hematized, 5% Quartz (Qtz eldspr pebbles typ) - 10% gabbroic, tr-5% Felsic Volcanics - greywacke, siltstone and Black Quartz (clastics) - rounded fragments are granitic, siltstone or felsic.						
7									
9	0 · 0 · 0 0 · 0 · 0 0 · 0 · 0	18929	- 2406 f.g. Sand - 5% silt	16	0	0	3	6	0
		18930	- well rounded till	0	0	0	0	4	0
11	V V V V V V V V V V V V	LO-93-4 Bedrock sample +10 mesh ↑ 18932	8.5-10m Sandy Gravel (lots of pebbles) - 40-60% f.g. - C.g sand, 5-6% silt locally present, - 5% rounded pebbles - greywacke and siltstone and quartz - 60%-70% Mafic Volcanic pebbles - 5% Fe Tholeiite - 5% Feldspar Porphyry - 5% Felsic Volcanics - 5% Int Volcanic - 5% Gabbro - 5% Qtz - minor porphyritic pebbles.						
13									
15									
17									
19									
21			10-12.5m Hematized Mafic Volcanics - non magnetic - med. to dk. green. - hematite stained fracture surfaces - Calcite fragments (weathered) - Sericite/Chlorite weak alteration						
23									

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd HOLE No. LO-93-5
CONTRACTOR Heath and Sherwood LOCATION 5333240N 596800E
DRILLER Kerry LaPorte BIT No. Same as March 10/93 BIT FOOTAGE 15.5m
MOVE TO HOLE 7:00 - 9:20am
DRILL 10:50 - 12:15am MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE March 11, 1993
OTHER CLAIM 1180509 McVITTIE TWP SHIFT 7:00 TO 5:00
MOVE TO NEXT HOLE 12:15 - 1:15am TOTAL HOURS 10 hours
GEOLOGIST D. Christie SAMPLER C. Rowley CONTRACT HOURS

DEPTH Feet ☐ Metres ☒	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	Gold Grains Rnd	Gold Grains Mod	Gold Grains Ang	INDICATORS DC	INDICATORS GP	INDICATORS GO
1			0-2m Peat, wood chips, humic silt						
			2-4m gravel with some sand and some clay seams at top of unit most fragments are intermediate to mafic volcanic, some rounded to sub-rounded fragments, some porphyry type fragments (Matachewan ?)	8	0	0	3	2	0
3		18926							
5			4-5m Boulder of Intermediate Volcanic (Hornfelsed)						
			5-11m Sandy gravel - 20% rounded pebbles - 80% angular pebbles - likely some cobbles, due to [illegible]	19	0	0	1	2	0
7		18927	[illegible] some fragments						
9			- No silt or very little, 50% sand - poorly sorted to well sorted appears to be stratified - large variety clasts with [illegible] percentages by volume appear [illegible] represented - 60% Mafic-Intermediate Volcanic (light green to grey) [illegible] with [illegible] silica chlorite veinlets - Quartz pebbles with [illegible]						
11		18928							
			11-11.2m Intermediate tuff fragments boulder	11	0	0	0	3	0
13			11.2 13.5m Sandy Gravel Diamicton - Matrix [illegible] fragments to silt/clay, [illegible] - Very large variety of fragments including [illegible] porphyry, [illegible] to Mafic Volcanic [illegible] conditions - 50% [illegible] and [illegible] 45% silt, [illegible]						
15		Bedrock Sample LO-93-5 +10 mesh 18843							
			Fine [illegible] - bedrock influence						
			13.5-15.5 Bedrock Felsic [illegible] (Gabbro ?) [illegible] 30-60 White + dark black [illegible] - [illegible] sericite alteration - [illegible]						

W.A.H.UBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT HOLE No. LO-7

CONTRACTOR HEATH & SHERWOOD LOCATION 5334660N 592500E

DRILLER KARI LIPASTI BIT No. CB 70697 BIT FOOTAGE 12.0 - 43.0 m

MOVE TO HOLE 12:15 - 2:45

DRILL 2:45 - 4:00 MECHANICAL DOWN TIME

DRILLING PROBLEMS DATE MAR 14/93

OTHER CLAIM 1180510 McVITTIE TWP SHIFT 7:00 TO 5:00PM

MOVE TO NEXT HOLE TOTAL HOURS

GEOLOGIST D. JAMIESON SAMPLER C. ROUTERY CONTRACT HOURS

David Jamieson

DEPTH Feet ☐ Metres ☑	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOOD GRAINS Rnd	Med	Def	INDICATORS DC	GP	GD
1			0 - 1.0m organics/peat						
			1.0 - 3.0m light brown clay						
3									
			3.0 - 19.5m grey clay						
5									
7									
9									
11									
13									
15									
17									
19			19.5 - 20.5m well sorted m.g. sand	9	0	0	0	2	0
		18945							
21		18946	20.5 - 22.0m moderately sorted c.g. sand and 'pea' gravel	1	0	0	1	4	0
		18947		4	0	0	0	2	0

W.A.HUBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY _____ HOLE No. LO-7

CONTRACTOR _____ LOCATION _____

DRILLER _____ BIT No. _____ BIT FOOTAGE _____

MOVE TO HOLE _____

DRILL _____ MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____ DATE _____

OTHER _____ SHIFT _____ TO _____

MOVE TO NEXT HOLE _____ TOTAL HOURS _____

GEOLOGIST _____ SAMPLER _____ CONTRACT HOURS _____

DEPTH Feet ☐ Metres ☒	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD GRAINS			INDICATORS		
				Rd	Mod	Ad	De	GP	GO
23		18947	22.0 - 27.0m poorly sorted sand and gravel, with pebbles generally small from 22.0 - 24.0.	10	0	0	1	7	0
		18948	50-60% pebbles						
		18949	10-20% f.g. - m.g. sand	19	10	2	5	6	0
25			20-40% c.g. sand						
		18950		26	0	0	3	3	0
			pebbles: 50% subrounded to subangular mafic volcanics						
27		18951	25% subrounded to subangular gabbro/syenite	5	0	0	0	3	0
		18952	25% granitics mainly subangular to subround						
29			red syenite porphyry						
		18645	27.0 - 28.0m stony sand till						
31			50% f.g. sand						
			30% pebbles						
			20% m.g. - c.g. sand						
33			minor silt content samples						
			28.0 - 28.5m boulder						
			28.5 - 29.0m sand with rolling bolders						
			5% sand						
			29.0 - 31.0m bedrock - f.g. - medium green non-magnetic mafic volcanic						

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT HOLE No. LO-8
CONTRACTOR HEATH & SHERWOOD LOCATION 5335203N 598180E
DRILLER KARI LIPASTI BIT No. CB 70697 + NEW SUB BIT FOOTAGE 0-12.0m
MOVE TO HOLE
DRILL MAR 14 11:30-12:15 MECHANICAL DOWN TIME 7:00-8:30 FLOATING FUEL FILTERS ON WATER MAIN CA
DRILLING PROBLEMS 8:30-5:00 HAUL WATER - BLOW UP WATER CARRIER DATE MAR 13/93
OTHER CLAIM 1180428 McVITTIE TWP SHIFT 7:00 TO 5:00
MOVE TO NEXT HOLE NO DRILLING MAR 13; MAR 14 - TOTAL HOURS
GEOLOGIST DAVID JAMIESON SAMPLER REPAIR WATER CONTRACT HOURS
HAULER TRK 9:00AM - HAUL WATER TILL 10:30 AM C-POWTERY

DEPTH Feet ☐ Metres ☒	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD GRAINS Fnd	Mod	Del	INDICATORS DC	GP	GO
1			0-1.3m organics						
			1.3-3.5m grey clay						
3			3.5-10.0m poorly sorted sand and gravel; 45% pebbles						
5		18941	45% sand 10% silt variations in matrix from vfg sand to m.g. sand indicate weak stratification	13	0	0	2	2	0
7		18942	pebbles: 40-50% subround to subangular mafic to intermediate volcanics	18	0	0	4	5	0
9		18943	25-40% subround to subangular gabbro/grey syenites	5	0	0	0	0	0
		18944	20-30% subround granitics	6	1	0	0	0	0
11		18646	10-12.0m bedrock - dk green aphanitic, massive, moderately magnetic mafic volcanic						
13			12.0m E.O.H						
15									
17									
19									
21									
23									

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Minerals HOLE No. LO-93-9
CONTRACTOR Health and Electrical LOCATION 5335150N 598700E
DRILLER Kerry LaPasti BIT No. CB70693 BIT FOOTAGE 31.5
MOVE TO HOLE 2:45 - 3:25
DRILL 3:25 - 5:25 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE March 12, 1993
OTHER CLAIM 1180479 McVITTIE TWP SHIFT 7:00 TO 5:25
MOVE TO NEXT HOLE 5:25 - ? TOTAL HOURS 10.50 hrs
GEOLOGIST D. Christie SAMPLER C. Routery CONTRACT HOURS

DEPTH Feet / Metres	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD GRAINS Red	Med	Def	INDICATORS DC	GP	GO
1			0-1.0m Organics and brown clay and Humus.						
			1.0-1.5m Grey green clay, soft pliable some organics - gritty						
3			1.5-4.0m grey clay, no organics no sand or grit						
			4.0-14.5m green grey clay, v. cohesive soft, smooth, no grit, no organics.						
5		no Sample	14.5-17.5m Sandy Gravel Diamicton 20% Diorite 30% Fe Tholeiite 20% Blake River Felsics (Dacite) minor Feldspar Hematized porphyry, gabbro, Quartz, Quartz-Calcs) 10-15% rounded or Subrounded pebbles 40% sand, minor silt present.						
7									
9									
			17.5-20.5m Fe-Tholeiite Boulder v. magnetic, black green magnetic						
11			20.5-22m Sandy Gravel Diamicton large variety of pebbles and fragments of pebbles and cobbles. 40% rounded Qtz, Siltstone, greywacke and Felsic Volcanics.						
13			30% gabbro, 20% Fe Tholeiite and Mafic Volcanics, 40-50% granular sand.						
15		18933	22-22.5m Sandy Diamicton increase in cobbles of Intermediate Volcanic or greywacke. 50% sand, trace silt 30-50% greywacke/Intermediate Volcanic similar to 14.5-17.5 otherwise	3	1	0	1	1	0
17									
19		no Sample	22.5-23m Hornblende Syenite boulder.						
			23-23.5m Sandy Diamicton large variety clasts, very few are rounded, 60-70% sand fines 40% pebbles or cobbles Mafic Volcanics, 30% gabbro/diorite with few Fe Tholeiites, minor greywacke, and Felsic Volcanic	14	0	0	1	2	0
21		18934							
		18935		1	2	0	2	0	0
23		not Sampled							

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd HOLE No. LO-93-9
CONTRACTOR _____ LOCATION _____
DRILLER _____ BIT No. _____ BIT FOOTAGE _____
MOVE TO HOLE _____
DRILL _____ MECHANICAL DOWN TIME _____
DRILLING PROBLEMS _____ DATE _____
OTHER _____ SHIFT _____ TO _____
MOVE TO NEXT HOLE _____ TOTAL HOURS _____
GEOLOGIST _____ SAMPLER _____ CONTRACT HOURS _____

DEPTH Feet / Metres	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD (ppb) Rock	Mod	Def	INDICATORS DC	GP	GO
25		18935	23.5-24.5 m Sandy Diamictan - increase in clasts (Andesite) pebbles and fragments (lightred. grey) Feldspar Porphyry or Syenite 5% -65-50% sand & c. gr..						
		not sampled							
		18935							
26		18936	24.5-26.0 m Sandy Diamictan -50% Intermediate Volcanic -rounded to very few, most are angular. -20% Feldspathic pebbles	6	2	0	1	1	0
		18937		1	0	0	0	0	0
27		18938							
		18939	26.0-27.8 m Sandy Gravelly Diamicton clay seams (quitty) reduced or clay balls -rounded pebbles - greywacke with micro fracture qtz. 5-10% -10% Qtz-felspar or Syenite Some w-rk PV 70% Mafic to Int. Volcanic and rock 5-10% Minor Fe Thdeite -trace Sulf - 5% visible.						
		18940							
29		LO93-10 Bedrock Sample from here							
31		18647	27.0-27.80 m Sandy Clay Balls in a Sandy silt and minor clast of Intermediate light green colour to yellow) very gritty.						
33			27.80-28.25 m Sandy clay balls with cobbles of Country Rock, groundwater altered A.gSilaty, Int. Volcanic non magnetic, no calcite veinlets. clay balls are up to 80% sand.						
35			28.25-28.5 m Sandy clay balls with cobbles an increasing amounts of Bedrock balls + 3cm,						
37			28.5-29.0 Sandy clay balls with bedrock chips and very silty						
39			29.0-31.5 Polyphyritic Intermediate Tuff Foliated, Serecitized, light green with rust brown staining on fractures 15-20% porphyritic - grey coloured (<2mm) to trachy.						
41									
43									
45									

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY Sudbury Contact Mines Ltd HOLE No. LO-93-10
CONTRACTOR Heath and Sherwood LOCATION L-Property (#181) McWatters Twp 599546E 5339770N
DRILLER Kerry LaPasti BIT No. CB70693 BIT FOOTAGE 11m
MOVE TO HOLE 11:30 - 1:30 pm
DRILL 1:30 - 2:45 pm MECHANICAL DOWN TIME 7:00 - 11:30 AM
DRILLING PROBLEMS clogged rods at 7.5m pull, wash, back down. DATE March 12, 1993
OTHER Problems starting Nordwell, stalled freeze overnight SHIFT 7:00 am TO 5:00 pm
MOVE TO NEXT HOLE 2:45 - 3:25 TOTAL HOURS 10
GEOLOGIST D. Christie SAMPLER C. Routley CONTRACT HOURS
CLAIM 1180479 M'VITTIE TWP

DEPTH Feet / Metres	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD GRAINS Fnel	Med	Del	INDICATORS DC	GP	GO
1			0-3.0m Beige clay with Grit						
			3.0-7.5m Grey beige clay with no grit, v. soft, smooth.						
3			7.5-9.5m Sandy Dismicton (Gravel) - 40-50% Mafic Volcanics - 10% Fe Thdeite - Magnetite						
5			- 10-20% rounded, the rest angular to fragmental (cellular) - most rounded pebbles are silty-to-[illegible] mafic qtz. argillite or felsic volcanic - minor amounts of qtz, greywacke, siltstone, Black Rock Volcanics (Felsic) epidotized mafic volcanics. - from 9-9.5m much more Sand, up to 60-70%, possibly Stratified.						
7									
9		18932	- becomes homolithic, due to bedrock influence, more & more Diorite from 9.m - 9.5m.	9	0	0	2	1	0
11	V V V V V V V V V V	LO-93-10 Bedrock Sample +10 mesh 18648							
13			9.5-11m Bedrock - Diorite - 15% Hornblende (light-medium grain) and 20% Pyroxene (black) and 35-40% white plagioclase feldspar and 20% bright green Serpentine alteration associated with fracture surfaces, shows slickenside on fracture surfaces.						
15									
17			- medium to coarse grained (2mm-5mm) - Minor clay alteration.						
19									
21									
23									

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT HOLE No. LO-11
CONTRACTOR HEATH & SHERWOOD LOCATION
DRILLER KARL LIPSETT BIT No. CR 70697 BIT FOOTAGE 43.0 - 50.5
MOVE TO HOLE
DRILL 7:45 - 6:30 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE MAR 16/93
OTHER CLAIM 1180479 M'VITTIE TWP SHIFT 7:00 TO 5:00
MOVE TO NEXT HOLE 8:30 - 9:45 TOTAL HOURS
GEOLOGIST D. JAMIESON SAMPLER C. ROOTERY CONTRACT HOURS

DEPTH Feet / Metres	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD GRAINS Red	Med	Def	INDICATORS Dc	GP	GO
1			0 - 3.0m poor return / fragments						
			3.0 - 3.5m well sorted m.g. sand with gabbro cobbles						
3				1	1	1	0	0	0
		18982							
		18983	3.5 - 5.5m cobbly gravel with very minor f.g. sand	0	0	0	0	0	0
5		18984	pebbles: 60% subangular to subround diorite/gabbro 30% melanogabbro 10% subround volcanics and granites	0	0	0	0	0	0
7		18649							
			5.5 - 6.0m gravel with 15% sand similar to 3.5 - 5.5						
9			6.0 - 7.5 diorite m.g. - c.g. massive gabbro; non-magnetic; no reaction w/ - 10mesh to 10% HCl						
			7.5m E.O.H.						

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT HOLE No. 10-13
CONTRACTOR HEATH & SHERWOOD LOCATION GRAVEL PIT AT LEMIEUX L. ACCESS TRAIL
DRILLER KARI LIPASTI BIT No. CR 70698 BIT FOOTAGE 0-16.5m
MOVE TO HOLE 10:00 - 11:45 (ATTEMPT HOLE N. OF LEMIEUX LAKE)
DRILL 11:45 - 12:30 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE MAR 16/93
OTHER CLAIM 1180459 McVITTIE TWP SHIFT 7:00 TO 5:00
MOVE TO NEXT HOLE 1:00 - 2:45 TOTAL HOURS
GEOLOGIST D. JAMIESON SAMPLER C. RAITCAY CONTRACT HOURS

David Jamieson

DEPTH Feet / Metres	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD GRAINS Rnd	Mod	Ang	INDICATORS DC	GP	GO
1			0-4.5m moderately sorted m-g sand; 5% pebbles; minor clay beds & f-g sand layers						
3		18953							
5		18954	4.5-9.0m c-g sand with angular to subrounded, mafic to well-sorted, with pockets of 10-30% m-g sand, moderately sorted granule-pebbles: 70% round to subangular						
7		18955	volcanic sand grains 30% rounded to subrounded granules	* 1	0	0	0	0	0
9			9.0-9.4m f-g well sorted sand	* 4	0	0	0	0	0
11		13[illegible]	9.4-13.5 clean well sorted c-g sand with some granules pebbles 15% rounded to subrounded mafic volcanic gabbro	* 0	0	0	0	1	0
13		[illegible]7	25% rounded to subrounded granules						
15		18650	13.5-13.8 f-g. sand beds						
17			13.8-14.5 clean gravel; as in beds comprising 9.4 to 13.5						
			14.5-16.5 black - dark green, f-g, massive moderately magnetic Fe-rich basaltic mafic volcanic; weak to moderate reaction in 10% HCl. mesh to 10% HCl.						

* barite-celestite grains

W.A.H.LUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT HOLE No. 10-14
CONTRACTOR HEATH & SHERWOOD LOCATION
DRILLER KARI LIPASTI BIT No. CB70698 BIT FOOTAGE 16.5-21.0m
MOVE TO HOLE 12:30 - 2:45
DRILL 2:45 - 3:30 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE MAR 16/93
OTHER CLAIM 1186224 SHIFT 7:00 TO 5:00
MOVE TO NEXT HOLE 3:30 - 5:00 TOTAL HOURS
GEOLOGIST D. JAMIESON SAMPLER C. ROUTERY CONTRACT HOURS

David Jamieson

DEPTH Feet / Metres	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD GRAINS Rd	Md	Dd	INDICATORS DC	GP	GO
			0 - 1.0m no return						
1			1.0 - 2.8m light brown clay, minor subround pebbles						
3		18458	2.8 - 3.2m silty till 5 10% subangular volcanics with minor granitic pebbles.	0	0	0	1	0	0
		18651							
5			3.2 - 4.5m bedrock - dark green sphenitic moderately magnetic Fe tholeiitic mafic volcanics: very weak reaction of powder to 10% HCl; pervasive silicification down to with 1-5% PY epidote + chlorite filled fractures.						
7									
9			4.5m E.O.H.						
11									
13									
15									
17									
19									
21									
23									

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT — HOLE No. LO-15
CONTRACTOR HEATH & SHERWOOD — LOCATION NORTH OF LO 14 ON MAJOR RD/BRIDGE
DRILLER KARI LIMSTI — BIT No. CB 70698 — BIT FOOTAGE 4.5 - 25.0m
MOVE TO HOLE 7:00 - 5:30
DRILL 5:30 - 9.45 — MECHANICAL DOWN TIME REPAIR HOSE ON WATER CANNON
DRILLING PROBLEMS — DATE MAR 10/73
OTHER CLAIM 1186224 McVITTIE TWP — SHIFT 7.00 TO 5:00PM
MOVE TO NEXT HOLE 9.45 - 12:30 — TOTAL HOURS
GEOLOGIST D. JAMIESON — SAMPLER C. RUTER — CONTRACT HOURS

DEPTH Feet / Metres	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD GRAIN COUNT Pmd	Med	Def	INDICATORS DC	GP	GO
			0-1.0m road gravel/soil and old wooden road bed/bridge						
3			1.0-3.0m grey & brown clay balls poor return						
			3.0-12.2m grey clay 4.5 old wood bridge? 7.5 old wood bridge?						
7			12.0-14.8m sandy silty till 30-40% pebbles, f-m-c sand matrix pebbles: 30-60% mafic subangular to subround volcanics 10-30% felsic subangular to subround volcanics 10-15% subangular to subround						
9									
11									
13		18959	gabbro 25-30% subround granitics	3	0	0	0	0	0
14		18960	14.8-15.0 granitic and volcanic cobbles/boulders with minor sand and gravel	6	1	0	0	0	0
15		BOULDER							
			15.0-16.0 felsic volcanic fragments	18	1	0	0	0	1
17		18961	16.0-18.5 sandy till 30% pebbles: f-m-c sand matrix	1	13	4	*1	0	0
		18962							
19		18669	pebbles: 40% subangular to subround mafic fragmental volcanics						
			20% subangular to subround felsic volcanics 20% subangular to subround gabbro 20% subround granitics						
21			18.5-19.5 bedrock - hard, m.g. mafic porphyritic gabbro						

* COARSE DC

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT HOLE No. LO-16
CONTRACTOR HEATH & SHERWOOD LOCATION
DRILLER KARI LIPASTI BIT No. CB 70699 BIT FOOTAGE 0-25.5
MOVE TO HOLE 9:45 - 12:30
DRILL 12:30 - 1:45 MECHANICAL DOWN TIME
DRILLING PROBLEMS FAILED SEAL OR PLUGGED ROD #8 DATE MAR 17/93
OTHER CLAIM 1186223 KATRINE TWP SHIFT 7:00 TO 5:00
MOVE TO NEXT HOLE 1:45 - 3:30 TOTAL HOURS
GEOLOGIST D JAMIESON SAMPLER C. RAITERY CONTRACT HOURS
David Jamieson

DEPTH Feet / Metres	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD GRAINS Red	Med	Dol	INDICATORS DC	GP	GO
1			0 - 1.0m dark brown clay						
			1.0 - 2.0m light brown clay						
3			2.0 - 11.0m grey clay						
5									
7									
9			11.0 - 13.9m grey silt with v. f.g. sand pebble layer at 13.5m gradational transition to f.g. sand						
11			13.9 - 16.2m f.g. sand, well sorted						
13			16.2 - 18.0m very sandy till pebbles: 60% mafic to intermediate subangular to subround 10% felsic volcanics 30% subround granites and gabbro						
15			18.0 - 18.2m boulder						
17		18963	18.2 - 20.0m Sandy till similar to 16.2 - 18.0m	3	0	0	0	0	0
19		18964	20.0 - 22.5m poorly sorted gravel; 10-20% sand matrix	12	0	0	0	0	0
21		18965	pebbles 95% angular intermediate volcanic pebbles 5% felsic volcanics 5% granites	10	3	0	0	0	0
23		18966		6	7	0	0	0	0

W.A.H. LUBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY _____ HOLE No. LO-16

CONTRACTOR _____ LOCATION _____

DRILLER _____ BIT No. _____ BIT FOOTAGE _____

MOVE TO HOLE _____

DRILL _____ MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____ DATE _____

OTHER _____ SHIFT _____ TO _____

MOVE TO NEXT HOLE _____ TOTAL HOURS _____

GEOLOGIST _____ SAMPLER _____ CONTRACT HOURS _____

DEPTH Feet ☐ Metres ☒	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG
23		18966	22.5 - 24.0 m heavy return of moderately sorted m.g. sand w/ 4% minor pebbles
25		18670	24.0 - 25.5 m bedrock - light grey green non-magnetic, hard, intermediate volcanics; weak reaction of ~10% to 10% HCl
27			25.5 m E.O.H.

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT HOLE No. 10-17
CONTRACTOR HEATH & SHERWOOD LOCATION
DRILLER KARI LIPASTI BIT No. CB 70699 BIT FOOTAGE 255-475
MOVE TO HOLE 1:45-3:30
DRILL 3:30 - 4:30 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE MAR 17/93
OTHER CLAIM 1180464 KATRINE TWP SHIFT 7:00 TO 5:00
MOVE TO NEXT HOLE 4:30-6:00 TOTAL HOURS
GEOLOGIST D. JAMIESON SAMPLER C. ROUTERY CONTRACT HOURS

David Jamieson

DEPTH Feet ☐ Metres ☒	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD GRAINS Rnd	Mod	Def	INDICATORS DC	GP	GO
1			0 - 1.0m no return						
			1.0 - 16.2m hard brown clay						
3									
5									
7									
9			16.2 - 18.0m reworked till? m.g. - c.g sand with 10-15% pebbles						
			pebbles: 50-60% subangular to subrounded intermediate volcanics						
11			10% subangular to subrounded gabbro						
			10% subrounded to subangular felsic & mafic volcanics						
13			20% subrounded to subangular granitics						
			18.0 - 18.6m volcanic fragments						
15			18.6 - 19.5m m.g. well sorted sand w. thin minor pebble layers						
17		18967	19.5 - 20.0m moderately sorted gravelly sand: 50% subangular gabbro pebbles	15	2	2	0	0	0
		18966		0	1	0	0	0	0
19		18969	20.0 - 22.0m bedrock m.g. massive black & white gabbro - moderately magnetic	9	0	0	0	0	0
		18970		6	0	0	0	1	0
21		18671	22.0 E.O.H.						
23									

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT HOLE No. LO-18
CONTRACTOR HEATH & SHERWOOD LOCATION
DRILLER KARI LIPASTI BIT No. CB 70700 BIT FOOTAGE 0 - 30.5m
MOVE TO HOLE 8:00 - 9:15
DRILL 9:15 - 11:00 MECHANICAL DOWN TIME
DRILLING PROBLEMS tight with poor returns in basal sand DATE MAR 18/93
OTHER CLAIM 1180465 KATRINE TWP SHIFT 7:00 TO 5:00
MOVE TO NEXT HOLE 11 00 - 1:30 TOTAL HOURS
GEOLOGIST D. JAMIESON SAMPLER C. POULTERY CONTRACT HOURS

DEPTH Feet ☐ Metres ☒	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD GRAIN COUNT Prof	Mod	Dull	INDICATORS DC	GP	GO
1			0-4.0m peat moss						
3									
5			4.0 - 19.0m grey clay						
7									
9									
11									
13									
15									
17			19.0 - 22.5m sandy till? 10-30% pebbles minor m.g-c.g sand lenses; 5-10% silt. 50-70% f.g-m.g sand matrix						
19			pebbles: 15-35% subround to subangular gabbro	4	6	0	2	2	0
21		18971	35-45% subround to subangular mafic intermediate volcanics	10	0	0	2	0	0
		18972	25-35% subround granites	6	0	0	0	0	0
23		18973							

W.A.H.LUBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY _____ HOLE No. 10-18

CONTRACTOR _____ LOCATION _____

DRILLER _____ BIT No. _____ BIT FOOTAGE _____

MOVE TO HOLE _____

DRILL _____ MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____ DATE _____

OTHER _____ SHIFT _____ TO _____

MOVE TO NEXT HOLE _____ TOTAL HOURS _____

GEOLOGIST _____ SAMPLER _____ CONTRACT HOURS _____

DEPTH Feet / Metres	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	Gold Grains Rnd	Hkd	Ded	Indicators DC	GP	GO
23		18973	22.5 - 24.2m well sorted, stratified, m.g. - c.g. sand; pebble layers						
		18974	24.2 - 24.8m sandy till; 10% pebbles	0	0	0	0	0	0
25		18975	pebbles: 65% subangular to subrounded mafic to intermediate volcanics	1	1	0	0	0	0
		18976		3	1	0	2	2	0
			25% subrounded granitics						
27		18977	10% subround to subangular pebble	0	0	0	0	0	0
			24.8 - 25.2m volcanic boulder						
29		18672	25.2 - 26.2m fine gravel, moderately sorted, cobbly; 5% sand and sand lenses						
			pebbles: mainly subrounded mafic to intermediate volcanics.						
31			26.2 - 27.8m poor return of v f.g. sand and silt.						
33			27.8 - 30.5m dark brown hard syenite						
			porphyry; moderately magnetic						
35			no reaction of -10 mesh to 10% HCl						
37									
39									
41									

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT HOLE No. 10-19
CONTRACTOR HEATH & SHERWOOD LOCATION
DRILLER KARI - IRMA BIT No. CR 70700 BIT FOOTAGE 30.5 - 68.0
MOVE TO HOLE 11:00 - 1:30
DRILL 1:30 - 5:00 MECHANICAL DOWN TIME
DRILLING PROBLEMS light hole - retrieve rod #3 DATE MAR 18/93
OTHER CLAIM 1180465 KATRINE TWP SHIFT 7:00 TO 5:00
MOVE TO NEXT HOLE TOTAL HOURS
GEOLOGIST D. JAMIESON SAMPLER C. ROUTERY CONTRACT HOURS
David Jamieson

DEPTH Feet ☐ Metres ☑	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG
1			0 - 1.7m organics
3			1.7 - 22.0m grey clay
5			
7			
9			
11			
13			
15			
17			
19			
21			22.0 - 25.3m silt & clay
23			

W.A.H.UBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY _____ HOLE No. 20-19

CONTRACTOR _____ LOCATION _____

DRILLER _____ BIT No. _____ BIT FOOTAGE _____

MOVE TO HOLE _____

DRILL _____ MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____ DATE _____

OTHER _____ SHIFT _____ TO _____

MOVE TO NEXT HOLE _____ TOTAL HOURS _____

GEOLOGIST _____ SAMPLER _____ CONTRACT HOURS _____

DEPTH Feet / Metres	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	Gold Grains: Rnd	Mod	Dol	Indicators: Dc	GP	GD
23			25.3 - 27.4m f.g. to m.g. well sorted sand						
25			27.4 - 31.0m f.g. well sorted sand; mica pebbles						
27			31.0 - 33.5m clean, coarse gravel, angular, poor return 60% subangular to subround mafic to intermediate volcanics 20% subround to subangular granites	3	1	0	0	0	0
29		18978	15% subangular to subround gabbro 5% subangular to subround felsic vol.						
31			33.5 - 34.0m m.g. - c.g. sand with 10% pea gravel - 80% subangular mafic to intermediate volcanics	0	0	0	0	0	0
33		18979		3	0	0	1	0	0
		18980							
		18981	34.0 - 34.8m sandy till pebbles: 90% subangular mafic to intermediate volcanic 10% subround granites	0	2	0	0	0	0
35		18673							
37			34.8 - 37.5m bedrock - silicified felsic to intermediate volcanic non-magnetic; no reaction of 10% to 10% HCl 37.5m E.O.H.						

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT HOLE No. LO-20
CONTRACTOR HEATH & SHERWOOD LOCATION
DRILLER KARI LIPASTI BIT No. CB 70716 BIT FOOTAGE
MOVE TO HOLE
DRILL 12:00 - 1:00 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE MAR 21/93
OTHER CLAIM 1186260 KATRINE TWP SHIFT 7:00 TO 5:00
MOVE TO NEXT HOLE 1:00 - 5:00 WALK DRILL TO DOBIE TOTAL HOURS
GEOLOGIST D JAMIESON SAMPLER C. POTTERY CONTRACT HOURS
David Jamieson

DEPTH Feet / Metres	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD GRAINS Rnd	Mod	Ang	INDICATORS DC	GP	GO
			0-0.5m organics / brown clay						
1			0.5-1.5m f.g. sand						
			1.5-4.5m moderately sorted f.g-c.g. sand with 5% pebbles; minor clay balls						
3		19012	pebbles: 50% subround volcanics 50% subrnd granites (possibly old road surface)						
5			4.5-6.5m grey clay						
7			6.5-13.5m f.g. grey well sorted sand						
9			13.5-15.5m sandy till: 15% pebbles f.g. sand matrix pebbles: 75% subrnd to subangular mafic to intermediate volcanics + gabbro 25% subrnd granites minor felsic volcanics, red syenite porphyry						
11									
13			13.5-16.0m moderately sorted gravel pebbles: 80% subangular to subrnd mafic volcanics 20% subrnd granites minor red syenite porphyry	4	0	1	2	1	0
15		19013		1	0	1	3	3	1
		19014							
17		19015	16.0-16.2m volcanic boulder	2	0	0	1	3	1
			16.2-16.5m moderately sorted cobbly sand						
19		18674	16.5-16.8m volcanic boulder						
			16.8-17.0m gravel / rock chips						
21			17.0-17.5m gabbro boulder						
			17.5-19.0m f.g. massive, black, hard moderately magnetic Fe + olivine no reaction of -10 mesh to 10% HCl						

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT HOLE No. K-01
CONTRACTOR HEATH & SHERWOOD LOCATION 5339170N 585390E
DRILLER KARI LIPASTI BIT No. CR 20717 BIT FOOTAGE 0-7.5m
MOVE TO HOLE 6:30 - 9:15
DRILL 9:15 - 9:45 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE MAR 22/93
OTHER CLAIM 1186217 ARNOLD TWP SHIFT 7:00 TO 5:00
MOVE TO NEXT HOLE 9:45 - 11:15 TOTAL HOURS
GEOLOGIST D. JAMESON SAMPLER C. POUTERY CONTRACT HOURS
David Jameson

DEPTH Feet / Metres	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD GRAINS Rnd	Mod	Ang	INDICATORS DC	GP	GO
1			0 - 0.5m - no return 0.5 - 2.0m clay + f.g. sand 2.0 - 5.0 vf.g grey sand						
3									
5		19016	5.0 - 5.4m sheared, sericitic pyritic felsic volcanic boulder + gabbro boulder with gravel	0	0	0	5	10	1
7			5.4 - 6.2m sandy till: 65% f.g - m.g. grey sand pebbles: 60% mafic to intermediate volcanics subround to subangular 10% felsic volcanics, subround to subangular 30% subround granites						
9			6.2 - 7.5m light to medium green, f.g. aphanitic mafic volcanics; non-magnetic no reaction of -10 mesh + 10% HCl						

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT HOLE No. K-02
CONTRACTOR HEATH & SHERWOOD LOCATION 5388875N 567480E
DRILLER KARI LIPASTI BIT No. CB 70717 BIT FOOTAGE 7.5 - 12.0m
MOVE TO HOLE 9:45 - 11:15
DRILL 11:15 - 11:45 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE MAR 22/93
OTHER CLAIM 1186216 ARNOLD TWP SHIFT 2:00 TO 5:00
MOVE TO NEXT HOLE 11:45 - 12:30 TOTAL HOURS
GEOLOGIST D JAMIESON SAMPLER C POWERY CONTRACT HOURS
David Jamieson

DEPTH Feet / Metres	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG	GOLD GRAINS Red	Med	Def	INDICATORS DC	GP	GO
			0 - 0.5m road gravel						
1			0.5 - 2.0m grey brown clay						
		19017	2.0 - 3.0m sandy cobbly till						
3			60% f.g. - m.g. grey sand	5	0	0	2	17	0
		18680	pebbles: 65% subangular to subround intermediate volcanics						
5			15% subangular to subround porphyritic rhyolite						
			5% black fe-tholeiitic mafic volcanics						
7			5% subangular massive felsic vols						
			20% subround granitics						
9			3.0 - 4.5m fel/black - medium grey intermediate volcanic; moderately hard; f.g. & fine amygdules; very weak reaction w/ ~10% & to 10% HCl						
11									

W.A.H.UBACHECK CONSULTANTS LTD.
TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY SUDBURY CONTACT HOLE No. K-03
CONTRACTOR HEATH & SHERWOOD LOCATION 533880N 586090E
DRILLER KARI LIPASTI BIT No. CB 70717 BIT FOOTAGE 12.0 - 15.0m
MOVE TO HOLE 11:45 - 12:30
DRILL 12:30 - 1:00 MECHANICAL DOWN TIME
DRILLING PROBLEMS DATE MAR 22/93
OTHER CLAIM 1186216 ARNOLD TWP SHIFT 2:00 TO 5:00
MOVE TO NEXT HOLE TOTAL HOURS
GEOLOGIST D. SAMILSON SAMPLER C. ZOUTERY CONTRACT HOURS
Dave Samilson

DEPTH Feet / Metres	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG
1			0 - 1.0m brown clay
			1.0 - 1.5m mafic volcanic boulder
3		18681	1.5 - 3.0 bedrock - Fe tholeiite mafic volcanic: moderately to strongly magnetic: dk green aphanitic to f.g. v. weak reaction to HCl
5			

HUBATC2A

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
18926	8	8	0	0	53.0	422	422	0	0
18927	19	19	0	0	114.9	101	101	0	0
18928	11	11	0	0	142.6	7	7	0	0
18929	16	16	0	0	92.4	55	55	0	0
18930	0	0	0	0	10.4	0	0	0	0
18931	4	4	0	0	87.5	15	15	0	0
18932	9	9	0	0	68.0	139	139	0	0
18933	4	3	1	0	99.7	37	22	15	0
18934	14	14	0	0	86.1	123	123	0	0
18935	3	1	2	0	91.7	9	0	9	0
18936	8	6	2	0	83.3	117	89	28	0
18937	1	1	0	0	71.9	5	5	0	0
18941	13	13	0	0	75.2	394	394	0	0
18942	18	18	0	0	119.6	77	77	0	0
18943	5	5	0	0	104.6	11	11	0	0
18944	7	6	1	0	98.1	121	119	2	0
18945	9	9	0	0	41.6	747	747	0	0
18946	1	1	0	0	24.8	60	60	0	0
18947	4	4	0	0	33.0	292	292	0	0
18948	10	10	0	0	60.0	282	282	0	0
18949	31	19	10	2	139.8	193	169	23	1
18950	26	26	0	0	115.0	386	386	0	0
18951	5	5	0	0	92.3	158	158	0	0
18955	1	1	0	0	18.6	25	25	0	0
18956	4	4	0	0	24.9	32	32	0	0
18957	0	0	0	0	8.4	0	0	0	0
18958	0	0	0	0	28.2	0	0	0	0
18959	3	3	0	0	79.0	10	10	0	0
18960	7	6	1	0	40.9	89	37	52	0
18961	19	18	1	0	71.3	818	325	493	0
18962	18	1	13	4	53.0	74	19	52	3
18963	3	3	0	0	102.8	23	23	0	0
18964	12	12	0	0	90.6	40	40	0	0
18965	13	10	3	0	81.1	282	272	11	0
18966	13	6	7	0	69.7	47	40	6	0
18967	19	15	2	2	57.7	370	360	8	3
18968	1	0	1	0	18.5	4	0	4	0
18969	9	9	0	0	56.8	51	51	0	0
18970	6	6	0	0	58.3	187	187	0	0
18971	10	4	6	0	85.5	114	81	34	0
18972	10	10	0	0	76.7	37	37	0	0
18973	6	6	0	0	43.0	102	102	0	0
18974	0	0	0	0	46.8	0	0	0	0
18975	2	1	1	0	18.0	6	5	1	0
18976	4	3	1	0	104.5	28	21	6	0
18977	0	0	0	0	23.4	0	0	0	0
18978	4	3	1	0	36.9	83	56	27	0
18979	0	0	0	0	4.5	0	0	0	0
18980	3	3	0	0	40.2	41	41	0	0
18981	2	0	2	0	16.2	85	0	85	0
18982	3	1	1	1	42.2	51	36	15	0
18983	0	0	0	0	19.3	0	0	0	0
18984	0	0	0	0	11.0	0	0	0	0

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)					AU		DESCRIPTION												CLASS
						M. CONC.	I. CONC					CLAST %					MATRIX						
	BULK	>2.0 MM	TABLE FEED	TABLE CONC	M.I. LIGHTS	TOTAL	NON MAG	MAG	NO. V.G.	CALC PPB	SIZE	V/S	GR	LS	OT	S/U	SD	ST	CY	COLOR SD	COLOR CY	OR	
18926	5.4	0.3	5.1	631.7	572.3	59.4	53.0	6.4	.8	422	C	95	5	0	NA	U	Y	Y	Y	GB	BN	N	TILL
18927	20.0	0.3	19.8	491.8	364.2	127.6	114.9	12.7	19	101	C	95	5	0	NA	U	+	-	-	GB	GB	N	TILL
18928	12.3	0.4	11.9	770.1	596.5	173.6	142.6	31.0	11	7	C	95	5	0	NA	U	+	-	-	GB	GB	N	TILL
18929	11.6	0.8	10.8	728.5	621.3	107.2	92.4	14.8	16	55	P	95	5	0	NA	U	+	-	-	GB	GB	N	TILL
18930	1.5	0.1	1.4	228.0	215.4	12.6	10.4	2.2	0	0	C	100	TR	0	NA	U	+	-	-	GN	GN	N	TILL
18931	11.6	0.4	11.2	540.6	440.2	100.4	87.5	12.9	4	15	P	95	5	0	NA	S	F	Y	-	GB	GB	N	SAND
18932	12.3	0.5	11.8	590.9	507.1	83.8	68.0	15.8	9	139	C	100	TR	0	NA	U	Y	Y	Y	GB	GB	N	TILL
18933	14.4	0.5	13.9	532.6	417.5	115.1	99.7	15.4	4	37	C	100	TR	0	NA	U	Y	Y	-	GG	GB	N	TILL
18934	15.5	0.1	15.4	535.8	432.0	103.8	86.1	17.7	14	123	C	95	5	0	NA	S	F,M	Y	-	GB	NA	N	SAND
18935	12.0	0.3	11.8	543.9	438.3	105.6	91.7	13.9	3	9	C	95	5	0	NA	U	+	Y	-	GB	GB	N	TILL
18936	9.4	0.1	9.3	560.7	464.4	96.3	83.3	13.0	8	117	C	85	15	0	NA	U	+	Y	-	GB	GB	N	TILL
18937	7.3	0.2	7.1	678.7	594.3	84.4	71.9	12.5	1	5	C	90	10	0	NA	U	+	-	-	GG	GB	N	TILL
18941	6.8	0.2	6.6	540.7	455.9	84.8	75.2	9.6	13	394	C	80	20	0	NA	U	+	-	-	GB	GB	N	TILL
18942	10.0	0.4	9.6	651.9	517.7	134.2	119.6	14.6	18	77	C	85	15	0	NA	U	+	Y	-	GB	GB	N	TILL
18943	9.9	0.4	9.5	474.1	354.5	119.6	104.6	15.0	5	11	C	95	5	TR	NA	U	+	-	-	GB	GB	N	TILL
18944	9.6	0.5	9.1	428.8	316.4	112.4	98.1	14.3	7	121	C	95	5	0	NA	U	+	-	Y	GB	GB	N	TILL
18945	3.7	0.1	3.6	232.0	183.2	48.8	41.6	7.2	9	747	P	95	5	0	NA	S	M,C	N	N	B	NA	N	SAND
18946	3.5	0.2	3.4	148.2	118.3	29.9	24.8	5.1	1	60	P	95	5	0	NA	S	M,C	N	+	B	B	N	SAND&CLAY
18947	4.4	0.3	4.1	147.4	107.2	40.2	33.0	7.2	4	292	C	95	5	0	NA	S	M,C	N	+	B	B	N	SAND&CLAY
18948	9.3	2.5	6.8	597.3	525.7	71.6	60.0	11.6	10	282	C	95	5	0	NA	U	+	-	-	B	B	N	TILL
18949	14.5	0.3	14.2	728.9	567.2	161.7	139.8	21.9	31	193	P	95	5	0	NA	U	+	-	-	GB	GB	N	TILL
18950	11.5	0.2	11.3	838.3	706.0	132.3	115.0	17.3	26	386	P	95	5	0	NA	S	F,M	-	-	GB	GB	N	SAND
18951	11.6	0.1	11.6	605.0	500.2	104.8	92.3	12.5	5	158	P	90	10	0	NA	S	F	Y	-	GB	GB	N	SILT&SAND
18955	2.3	0.1	2.3	353.1	332.4	20.7	18.6	2.1	1	25	P	95	5	0	NA	S	M	-	N	B	NA	N	SAND
18956	3.2	0.3	3.0	356.9	328.9	28.0	24.9	3.1	4	32	P	90	10	0	NA	U	+	-	-	LOC	LOC	N	TILL
18957	1.4	0.1	1.4	73.4	63.8	9.6	8.4	1.2	0	0	P	95	5	0	NA	S	M	-	N	GN	NA	N	SAND
18958	3.3	0.1	3.2	532.5	499.5	33.0	28.2	4.8	0	0	C	95	5	0	NA	U	Y	Y	Y	GG	GB	N	TILL
18959	6.3	0.1	6.2	609.5	522.3	87.2	79.0	8.2	3.0	10.5	P	95	5	0	NA	U	+	-	-	GB	GB	N	TILL
18960	5.4	0.2	5.3	574.6	521.0	53.6	40.9	12.7	7.0	88.7	P	80	20	0	NA	U	+	-	N	GB	NA	N	TILL
18961	9.1	0.4	8.8	843.0	754.1	88.9	71.3	17.6	19.0	817.9	P	90	10	0	NA	U	+	-	-	GB	GB	N	TILL
18962	5.7	0.2	5.5	654.2	589.2	65.0	53.0	12.0	18.0	73.7	P	90	10	0	NA	S	F,M	-	N	GB	NA	N	SAND
18963	10.0	0.0	10.0	643.9	524.4	119.5	102.8	16.7	3.0	23.3	NA	NA	NA	0	NA	S	F	-	N	GB	NA	N	SAND
18964	15.4	0.1	15.3	679.5	569.8	109.7	90.6	19.1	12.0	39.6	P	80	20	0	NA	S	F,M	-	N	GB	NA	N	SAND
18965	14.2	0.6	13.6	787.0	694.0	93.0	81.1	11.9	13.0	282.3	P	90	10	0	NA	U	+	-	-	LOC	LOC	N	TILL

OVERBURDEN DRILLING MANAGEMENT LIMITED

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)					.AU		DESCRIPTION												CLASS
						M.I. CONC					CLAST					MATRIX							
	BULK	>2.0 MM	TABLE FEED	TABLE CONC	M.I. LIGHTS	CONC. TOTAL	NON MAG	MAG	NO V.G.	CALC PPB	SIZE	% V/S	% GR	% LS	% OT	S/U	SD	ST	CY	COLOR SD	COLOR CY	OR	
18966	12.6	0.3	12.3	763.4	679.7	83.7	69.7	14.0	13.0	46.7	P	100	0	0	NA	U	+	-	-	GB	B	N	TILL
18967	8.3	0.2	8.1	818.1	748.2	69.9	57.7	12.2	19.0	370.5	P	90	10	0	NA	U	+	-	-	GB	GB	N	TILL
18968	2.8	0.1	2.7	232.5	210.1	22.4	18.5	3.9	1.0	4.4	P	95	5	0	NA	U	+	-	-	GB	GB	N	TILL
18969	8.9	0.1	8.8	765.7	696.7	69.0	56.8	12.2	9.0	50.9	P	95	5	0	NA	U	+	-	-	GB	GB	N	TILL
18970	6.2	0.1	6.1	441.6	365.4	76.2	58.3	17.9	6.0	186.5	P	30	70	0	NA	U	+	-	-	GB	GB	N	TILL
18971	13.0	0.2	12.8	552.5	452.3	100.2	85.5	14.7	10.0	114.2	P	85	15	0	NA	U	+	-	-	GB	GB	N	TILL
18972	12.1	0.3	11.8	495.0	403.2	91.8	76.7	15.1	10.0	37.0	P	80	20	0	NA	U	+	-	-	GB	GB	N	TILL
18973	5.8	0.2	5.7	302.0	251.9	50.1	43.0	7.1	6.0	101.9	P	90	10	0	NA	U	+	-	-	GB	GB	N	TILL
18974	6.4	0.1	6.3	678.1	621.6	56.5	46.8	9.7	0.0	0.0	P	95	5	0	NA	S	M	-	-	GB	B	N	SAND
18975	2.0	0.0	2.0	413.3	391.8	21.5	18.0	3.5	2.0	5.9	NA	NA	NA	0	NA	S	F,M	-	N	GB	NA	N	SAND
18976	10.0	0.2	9.8	701.2	580.4	120.8	104.5	16.3	4.0	27.6	P	95	5	0	NA	U	+	-	-	GB	B	N	TILL
18977	2.4	0.0	2.4	225.8	199.8	26.0	23.4	2.6	0.0	0.0	NA	NA	NA	0	NA	S	F	Y	-	GB	GB	N	SAND
18978	3.8	0.0	3.8	331.4	290.9	40.5	36.9	3.6	4.0	83.4	NA	NA	NA	0	NA	S	F	Y	-	GB	GB	N	SAND
18979	0.8	0.1	0.7	226.7	221.6	5.1	4.5	0.6	0.0	0.0	P	95	5	0	NA	S	F,M	N	N	B	NA	N	SAND
18980	4.4	0.2	4.2	488.8	443.6	45.2	40.2	5.0	3.0	41.2	C	95	5	0	NA	S	F,M	-	N	GB	NA	N	SAND
18981	2.8	0.1	2.7	339.9	320.4	19.5	16.2	3.3	2.0	85.4	P	90	10	0	NA	S	F,M	-	N	B	NA	N	SAND
18982	6.1	0.6	5.5	592.4	541.6	50.8	42.2	8.6	3.0	50.9	C	15	85	0	NA	U	+	-	-	LOC	LOC	N	TILL
18983	2.7	0.4	2.3	414.9	382.0	32.9	19.3	13.6	0.0	0.0	C	20	80	0	NA	U	+	-	-	LOC	LOC	N	TILL
18984	3.0	0.5	2.5	169.4	145.6	23.8	11.0	12.8	0.0	0.0	C	25	75	0	NA	S	F,M	N	N	GNB	NA	N	SAND

GOLD CLASSIFICATION
==========
VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE	PANNED Y/N	DIAMETER	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
K													
18926	Y	25 X 25	5 C		1					1			NO SULPHIDES
		25 X 50	8 C		1					1			
		50 X 50	10 C		1					1			
		50 X 75	13 C		1					1			
		50 X 100	15 C	1						1			
		75 X 150	22 C	1						1			
		100 X 150	25 C	1						1			
		200 X 250	42 C	1						1			
										8	53	422	
18927	Y	25 X 25	5 C	3						3			EST. 1% PYRITE
		25 X 50	8 C		2					2			
		25 X 75	10 C	1						1			
		50 X 75	13 C	3	1					4			
		50 X 100	15 C	1	1					2			
		75 X 75	15 C	1	1					2			
		75 X 100	18 C	1	1					2			
		100 X 100	20 C	2						2			
		100 X 125	22 C	1						1			
										19	115	101	
18928	Y	15 X 15	3 C	1						1			EST. 0.1% PYRITE
		25 X 25	5 C	5						5			
		25 X 50	8 C	2						2			
		25 X 75	10 C	2						2			
		50 X 75	13 C		1					1			
										11	143	7	
18929	Y	25 X 25	5 C	1	1					2			EST. 3% PYRITE
		25 X 50	8 C	4						4			
		25 X 75	10 C	1						1			
		50 X 50	10 C	1	1					2			
		50 X 75	13 C	4						4			
		50 X 100	15 C		1					1			
		75 X 100	18 C	1	1					2			
										16	92	55	
18930	Y	NO VISIBLE GOLD											EST. 7% PYRITE
18931	Y	25 X 25	5 C	1						1			EST. 1% PYRITE
		25 X 50	8 C	1						1			
		50 X 50	10 C		1					1			
		75 X 100	18 C	1						1			
										4	88	15	
18932	Y	25 X 25	5 C	2	1					3			EST. 2% PYRITE
		25 X 50	8 C	2						2			
		50 X 75	13 C	1						1			
		50 X 125	18 C	1						1			
		100 X 150	25 C	1						1			
		125 X 175	29 C	1						1			
										9	68	139	
18933	Y	25 X 50	8 C		1					1			EST. 2% PYRITE
		50 X 100	15 C		1					1			0.5% MARCASITE
		75 X 125	20 C	1			1			2			
										4	100	37	
18934	Y	25 X 25	5 C	3	1					4			EST. 0.5% PYRITE
		25 X 50	8 C	4						4			0.5% MARCASITE
		25 X 75	10 C		1					1			

GOLD CLASSIFICATION
==========
VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE	PANNED Y/N	DIAMETER 40	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
		50 X 50	10 C		2					2			
		50 X 75	13 C	1						1			
		75 X 125	20 C		1					1			
		175 X 175	34 C	1						1			
										14	86	123	
18935	Y	25 X 25	5 C		1					1			EST. 3% PYRITE
		25 X 75	10 C				1			1			0.5% MARCASITE
		50 X 100	15 C			1				1			
										3	92	9	
18936	Y	25 X 75	10 C				1			1			EST. 5% PYRITE
		25 X 100	13 C	1						1			0.5% MARCASITE
		50 X 50	10 C	1						1			
		50 X 75	13 C	1						1			
		50 X 175	22 C	1						1			
		75 X 125	20 C	1						1			
		100 X 125	22 C				1			1			
		100 X 150	25 C	1						1			
										8	83	117	
18937	Y	50 X 75	13 C	1						1			EST. 5% PYRITE
													0.5% MARCASITE
										1	72	5	
18941	Y	25 X 25	5 C	2						2			EST. 3% PYRITE
		25 X 50	8 C	1						1			0.5% MARCASITE
		50 X 50	10 C	1						1			
		50 X 75	13 C	2						2			
		50 X 100	15 C	1						1			
		50 X 150	20 C		1					1			
		75 X 100	18 C	1	1					2			
		100 X 125	22 C		1					1			
		100 X 225	31 C	1						1			
		175 X 275	42 C	1						1			
										13	75	394	
18942	Y	25 X 25	5 C	3	1					4			EST. 7% PYRITE
		25 X 50	8 C	3						3			
		25 X 75	10 C	1						1			
		25 X 100	13 C	1						1			
		50 X 50	10 C	3	1					4			
		50 X 75	13 C	1						1			
		50 X 150	20 C	1						1			
		75 X 75	15 C	1						1			
		75 X 175	25 C	1						1			
		100 X 125	22 C	1						1			
										18	120	77	
18943	Y	25 X 50	8 C		2					2			EST. 3% PYRITE
		50 X 50	10 C	1						1			0.5% MARCASITE
		50 X 75	13 C	1	1					2			
										5	105	11	
18944	Y	25 X 50	8 C	1						1			EST. 3% PYRITE
		25 X 75	10 C				1			1			0.5% MARCASITE
		50 X 50	10 C	1						1			
		75 X 75	15 C	1						1			
		75 X 125	20 C		1					1			
		100 X 100	20 C	1						1			
		175 X 175	34 C	1						1			
										7	98	121	

GOLD CLASSIFICATION
==========
VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE	PANNED Y/N	DIAMETER	THICKNESS	NUMBER OF GRAINS: RESHAPED T	RESHAPED P	MODIFIED	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
18945	Y	50 X 75	13 C	1					1			NO SULPHIDES
		50 X 125	18 C	2					2			
		75 X 100	18 C	2					2			
		75 X 125	20 C		1				1			
		75 X 200	27 C	1					1			
		125 X 225	34 C	1					1			
		175 X 250	40 C	1					1			
									9	42	747	
18946	Y	50 X 150	20 C	1					1			NO SULPHIDES
									1	25	60	
18947	Y	25 X 75	10 C	1					1			EST. 3% PYRITE
		50 X 50	10 C		1				1			0.5% MARCASITE
		100 X 100	20 C		1				1			
		150 X 200	34 C	1					1			
									4	33	292	
18948	Y	25 X 50	8 C		1				1			EST. 0.15 PYRITE
		25 X 75	10 C	1					1			
		50 X 75	13 C		2				2			
		75 X 75	15 C		1				1			
		75 X 125	20 C	1					1			
		75 X 175	25 C		1				1			
		100 X 125	22 C		1				1			
		100 X 175	27 C	1					1			
		125 X 175	29 C	1					1			
									10	60	282	
18949	Y	15 X 15	3 C			2		1	3			EST. 1% PYRITE
		25 X 25	5 C		1				1			
		25 X 50	8 C	3		3			6			
		25 X 75	10 C			1			1			
		50 X 50	10 C	1				1	2			
		50 X 75	13 C	1	2	2			5			
		50 X 100	15 C	1	1				2			
		50 X 125	18 C			1	1		2			
		75 X 75	15 C	1					1			
		75 X 100	18 C		1				1			
		75 X 125	20 C	1	1				2			
		75 X 175	25 C	1					1			
		100 X 100	20 C		1				1			
		100 X 175	27 C		1				1			
		100 X 150	25 C		1				1			
		125 X 175	29 C		1				1			
									31	140	193	
18950	Y	25 X 25	5 C		1				1			EST. 1% PYRITE
		25 X 50	8 C	7	1				8			
		25 X 75	10 C	2					2			
		50 X 50	10 C	2	1				3			
		50 X 75	13 C	2	1				3			
		50 X 100	15 C		1				1			
		50 X 125	18 C		1				1			
		75 X 100	18 C	2					2			
		75 X 125	20 C	1					1			
		75 X 225	29 C	1					1			
		125 X 225	34 C	1					1			
		150 X 200	34 C		1				1			
		150 X 300	42 C		1				1			
									26	115	386	
18951	Y	25 X 75	10 C	1					1			EST. 1% PYRITE
		75 X 100	18 C	2					2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE	PANNED Y/N	DIAMETER 40	THICKNESS	NUMBER OF GRAINS: RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
		100 X 150	25 C		1					1			
		175 X 200	36 C	1						1			
										5	92	158	
18955	Y	25 X 75	25 M	1						1			
										1	19	25	
18956	Y	15 X 15	3 C	1						1			EST. 0.1% PYRITE
		25 X 50	8 C	2						2			
		75 X 75	15 C	1						1			
										4	25	32	
18957	Y	NO VISIBLE GOLD											EST. 0.3% PYRITE
18958	Y	NO VISIBLE GOLD											EST. 2% PYRITE
18959	Y	25 X 50	8 C	1						1			EST. 3% PYRITE
		50 X 75	13 C	1	1					2			
										3	79	10	
18960	Y	25 X 25	5 C	1						1			EST. 2% PYRITE
		25 X 50	8 C	1						1			
		25 X 75	10 C	2						2			
		50 X 75	13 C	1						1			
		50 X 100	15 C	1						1			
		100 X 125	22 C			1				1			
										7	41	89	
18961	Y	25 X 25	5 C	4	1					5			EST. 7% PYRITE
		25 X 50	8 C	3						3			
		25 X 75	10 C		1					1			
		50 X 50	10 C	1						1			
		50 X 75	13 C	3						3			
		50 X 100	15 C	1						1			
		75 X 100	18 C	1						1			
		75 X 150	22 C	1						1			
		100 X 100	20 C	1						1			
		150 X 300	42 C	1						1			
		225 X 275	75 M			1				1			
										19	71	818	
18962	Y	15 X 15	3 C			2				2			EST. 7% PYRITE
		25 X 25	5 C			2		3		5			
		25 X 50	8 C			2		1		3			
		25 X 75	10 C			1				1			
		50 X 50	10 C			1				1			
		50 X 75	13 C			4				4			
		75 X 75	15 C			1				1			
		75 X 100	18 C	1						1			
										18	53	74	
18963	Y	25 X 50	8 C		1					1			EST. 0.2% PYRITE
		50 X 50	10 C	1						1			
		100 X 125	22 C	1						1			
										3	103	23	
18964	Y	25 X 25	5 C	1						1			EST. 0.5% PYRITE
		25 X 50	8 C	4	1					5			0.1% MARCASITE
		50 X 50	10 C	2						2			
		50 X 75	13 C	2						2			
		75 X 100	18 C	1	1					2			

GOLD CLASSIFICATION
VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE	PANNED Y/N	DIAMETER 40	THICKNESS	NUMBER OF GRAINS RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED I	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
										12	91	40	
18965	Y	25 X 25	5 C		1		1			2			EST. 0.2% PYRITE
		25 X 50	8 C		1					1			0.1% MARCASITE
		25 X 75	10 C	1						1			
		50 X 50	10 C				1			1			
		50 X 75	13 C	1						1			
		75 X 75	15 C	1			1			2			
		75 X 100	18 C		1					1			
		75 X 125	20 C		1					1			
		100 X 100	50 M		1					1			
		100 X 175	75 M		1					1			
		125 X 150	27 C	1						1			
										13	81	282.26	
18966	Y	15 X 15	3 C			1				1			EST. 0.2% PYRITE
		25 X 25	5 C			3				3			0.1% MARCASITE
		25 X 50	8 C	3	1	2				6			
		50 X 50	10 C			1				1			
		50 X 75	13 C	1						1			
		100 X 125	22 C	1						1			
										13	70	47	
18967	Y	25 X 25	5 C	1						1			EST. 0.2% PYRITE
		25 X 50	8 C	2	3	1			2	8			0.1% MARCASITE
		25 X 75	10 C		2					2			
		50 X 50	10 C	1						1			
		50 X 75	13 C	1		1				2			
		75 X 100	18 C	1						1			
		75 X 125	20 C	1						1			
		75 X 175	25 C		1					1			
		150 X 175	31 C	1						1			
		150 X 200	34 C	1						1			
										19	58	370	
18968	Y	25 X 50	8 C			1				1			EST. 0.5% PYRITE
										1	19	4	
18969	Y	25 X 25	5 C	5						5			EST. 0.1% PYRITE
		25 X 50	8 C	1						1			
		50 X 50	10 C	1						1			
		50 X 75	13 C	1						1			
		75 X 150	22 C		1					1			
										9	57	51	
18970	Y	15 X 15	3 C	1						1			EST. 0.8% PYRITE
		50 X 50	25 M	1						1			
		50 X 100	15 C		1					1			
		75 X 100	18 C	2						2			
		175 X 175	34 C	1						1			
										6	58	187	
18971	Y	25 X 25	5 C			1				1			EST. 2% PYRITE
		25 X 50	8 C	1		2				3			
		25 X 75	10 C			1				1			
		50 X 75	13 C		1	1				2			
		75 X 125	20 C	1						1			
		75 X 150	22 C			1				1			
		125 X 175	29 C		1					1			
										10	86	114	
18972	Y	25 X 50	8 C	2	2					4			EST. 2% PYRITE
		50 X 50	10 C	2						2			

GOLD CLASSIFICATION
==========
VISIBLE GOLD FROM SHAKING TABLE AND PANNING

SAMPLE	PANNED Y/N	DIAMETER	THICKNESS	NUMBER OF GRAINS: RESHAPED T	RESHAPED P	MODIFIED	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
		50 X 75	13 C	2	1				3			
		75 X 100	18 C	1					1			
									10	77	37	
18973	Y	25 X 25	5 C	1					1			EST. 2% PYRITE
		25 X 75	10 C	1					1			
		75 X 75	15 C	1					1			
		75 X 100	18 C	2					2			
		75 X 125	20 C	1					1			
									6	43	102	
18974	Y	NO VISIBLE GOLD										EST. 1% PYRITE
18975	Y	25 X 25	5 C			1			1			EST. 0.5% PYRITE
		25 X 50	8 C	1					1			
									2	18	6	
18976	Y	50 X 75	13 C	2					2			NO SULPHIDES
		50 X 100	15 C			1			1			
		75 X 125	20 C	1					1			
									4	105	28	
18977	Y	NO VISIBLE GOLD										NO SULPHIDES
18978	Y	25 X 100	13 C	1					1			NO SULPHIDES
		50 X 50	10 C	1					1			
		75 X 100	18 C			1			1			
		75 X 125	20 C	1					1			
									4	37	83	
18979	Y	NO VISIBLE GOLD										NO SULPHIDES
18980	Y	25 X 125	15 C		1				1			EST. 1% PYRITE
		50 X 75	13 C	1					1			
		50 X 100	15 C		1				1			
									3	40	41	
18981	Y	50 X 75	13 C			1			1			EST. 0.1% PYRITE
		75 X 100	18 C			1			1			
									2	16	85	
18982	Y	15 X 15	3 C				1		1			EST. 0.1% PYRITE
		75 X 75	15 C			1			1			
		75 X 125	20 C	1					1			
									3	42	51	
18983	Y	NO VISIBLE GOLD										NO SULPHIDES
18984	Y	NO VISIBLE GOLD										EST. 0.1% PYRITE

19016	401.7	400.3	1.4	1.3	0.1	361.2	302.1	49.1	42.1	35.2	5.5	1.4	7.0	0	0	1	0	0	2	1	0	0	0	8	4	- +0.5 MM MAINLY CUTTINGS OF GREEN DIABASIC PX.
19017	480.7	478.8	1.9	1.6	0.3	336.5	249.1	73.4	61.5	54.6	9.2	1.7	11.9	0	0	0	0	0	6	2	0	1	0	12	2	- ALSO PICKED 1 0.5-1 MM PINK CRUSTAL GARNET WITH SURFACE TEXTURES INDICATING KIMBERLITIC SOURCE.

SAMPLE 19001 ALSO PICKED ARE ORANGE GARNET FROM 0.25-0.5 MM

QUALITY CONTROL PICK PERFORMED ON 0.25-0.5 MM PARAMAG

SUBACREEK CONSULTING
OTTERBURN MINING MANAGEMENT LIMITED
BELOW LICOLN SAMPLE RETURNS (Oct 5 '87)

SAMPLE NUMBER	DIRECT SIEVE (1.0 TO 2.0 MM)					TABLE CONCENTRATE (<1.0 MM)							NUMBER OF INDICATOR MINERALS											REMARKS
	TOTAL	LIGHTS	CONC TOTAL	NON MAG	MAG	TOTAL	LIGHTS	CONC TOTAL	TOTAL	NON MAG <0.25 MM	NON MAG 0.25-0.5 MM	NON MAG >0.5 MM	MAG	1 TO 2 MM GP	1 TO 2 MM GO	1 TO 2 MM DC	1 TO 2 MM IN	1 TO 2 MM CR	0.5 TO 1 MM GP	0.5 TO 1 MM GO	0.5 TO 1 MM DC	0.5 TO 1 MM IN	0.5 TO 1 MM CR	0.25-0.5 MM GP	0.25-0.5 MM DC	
10026	402.1	400.5	2.0	0.7	0.2	672.1	660.1	60.1	84.1	22.7	7.2	4.2	0.4	0	0	0	0	0	0	0	0	0	0	0	0	- 1 blue syroxx.
10027	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	- abundant diabase rock cuttings
10028	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	- 1 blue syroxx(?); abundant diabase cutti
10029	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10030	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10031	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10032	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10033	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10034	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10035	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10036	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10037	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10038	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10039	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10040	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10041	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10042	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10043	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10044	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10045	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10046	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10047	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10048	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10049	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10050	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10051	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10052	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10053	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10054	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10055	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10056	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10057	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10058	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10059	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10060	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10061	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10062	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10063	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10064	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10065	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10066	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10067	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10068	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10069	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10070	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10071	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10072	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10073	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10074	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10075	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10076	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10077	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10078	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10079	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10080	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10081	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10082	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10083	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10084	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10085	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10086	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10087	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10088	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10089	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10090	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10091	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10092	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10093	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10094	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10095	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10096	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10097	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10098	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10099	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10100	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10101	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10102	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10103	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10104	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10105	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10106	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10107	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10108	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10109	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10110	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10111	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10112	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10113	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10114	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10115	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10116	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10117	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10118	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10119	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10120	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10121	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10122	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10123	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10124	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10125	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10126	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10127	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10128	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10129	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10130	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10131	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10132	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10133	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10134	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10135	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10136	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10137	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10138	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10139	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0	0	0	
10140	1.1	1.1	1.1	0.1	<0.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0	0	0	0	0	0	0	0	0	0

H15ALLSM.WR1

!B!!OVERBURDEN DRILLING MANAGEMENT LIMITED!

GOLD GRAIN SUMMARY SHEET!!

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
15000s									
15389	9	8	0	1	49.0	40	38	0	2
15390	0	0	0	0	12.8	0	0	0	0
15391	0	0	0	0	22.9	0	0	0	0
15392	2	2	0	0	36.7	15	15	0	0
15393	2	2	0	0	41.9	66	66	0	0
15394	6	6	0	0	18.6	844	844	0	0
15395	4	3	0	1	34.2	99	98	0	1
15396	4	4	0	0	23.8	42	42	0	0
15397	12	11	0	1	11.1	186	183	0	2
15398	23	21	1	1	78.0	112	111	1	0
15399	8	8	0	0	39.4	128	128	0	0
15427	15	9	6	0	26.4	198	155	42	0
15428	0	0	0	0	25.0	0	0	0	0
15429	6	6	0	0	32.8	211	211	0	0
15430	5	5	0	0	35.6	24	24	0	0
15431	1	1	0	0	16.1	23	23	0	0
15439	2	2	0	0	30.5	6	6	0	0
15440	12	12	0	0	70.5	139	139	0	0
15441	0	0	0	0	18.3	0	0	0	0
15442	15	10	4	1	22.5	468	177	290	0
15459	0	0	0	0	91.7	0	0	0	0
15460	35	35	0	0	74.5	81	81	0	0
15472	1	1	0	0	60.9	1	1	0	0
15473	18	17	0	1	39.9	125	124	0	1
15479	16	15	1	0	21.0	360	359	1	0
15480	29	29	0	0	22.5	13044	13044	0	0
15481	0	0	0	0	6.2	0	0	0	0
15482	NA	0	0	0	2.7	0	0	0	0
15483	6	5	1	0	12.5	2302	2302	0	0

NA = NOT A TILL SAMPLE: VG NOT COUNTED

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

M15O1RE.WR2
TOTAL # OF PANNINGS 40

SAMPLE #	PANNED Y/N	DIAM	ITER		THICKNESS		NUMBER OF GRAINS: MISSHAPED T	MISSHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	MIN MEG GMS	CALC V.G. ASSAY PPB	REMARKS
15000s																
15389	Y	25	X	50	8	C		2			1		3			NO SULPHIDES
		25	X	75	10	C	1						1			
		50	X	50	10	C	1	1					2			
		50	X	75	13	C	1	2					3			
													9	49	40	
15390	N	NO VISIBLE GOLD														
15391	N	NO VISIBLE GOLD														
15392	N	25	X	75	10	C	1						1			
		50	X	75	13	C	1						1			
													2	36.7	15	
15393	N	50	X	100	16	C	1						1			
		100	X	125	22	C	1						1			
													2	41.9	66	
15394	Y	25	X	25	5	C	1						1			NO SULPHIDES
		25	X	50	8	C	1						1			
		50	X	75	13	C	1						1			
		75	X	125	20	C	1						1			
		100	X	200	29	C	1						1			
		100	X	150	75	M	1						1			
													6	18.6	844	
15395	Y	25	X	25	5	C					1		1			NO SULPHIDES
		25	X	50	8	C	1						1			
		50	X	75	13	C	1						1			
		125	X	125	25	C		1					1			
													4	34.2	99	
15396	Y	25	X	50	8	C	2						2			NO SULPHIDES
		50	X	50	10	C	1						1			
		75	X	75	15	C	1						1			
													4	23.8	42	
15397	Y	25	X	25	5	C	2				1		3			NO SULPHIDES
		25	X	50	8	C	5						5			
		25	X	75	10	C	1						1			
		50	X	75	13	C		2					2			
		75	X	75	15	C	1						1			
													12	11.1	186	
15398	Y	15	X	15	3	C	1					1	2			NO SULPHIDES
		25	X	25	5	C		3					3			
		25	X	50	8	C	5	4		1			10			
		25	X	75	10	C		2					2			
		50	X	75	13	C	2	2					4			
		75	X	100	16	C		1					1			
		125	X	175	29	C	1						1			
													23	78	112	
15399	Y	25	X	50	8	C		1					1			NO SULPHIDES
		50	X	50	10	C	1						1			
		50	X	75	13	C	3	2					5			
		125	X	125	26	C	1						1			
													8	39.4	120	
15427	Y	15	X	15	3	C			3				3			NO SULPHIDES
		25	X	25	5	C	1						1			
		25	X	50	8	C	1		1				2			
		25	X	75	10	C	1						1			
		50	X	50	10	C	1						1			
		50	X	75	13	C	3	1		1			5			
		100	X	150	15	C				1			1			
		50	X	175	22	C	1						1			
													15	26.4	198	
15428	N	NO VISIBLE GOLD														
15429	Y	25	X	25	5	C		1					1			NO SULPHIDES
		25	X	50	8	C	1						1			
		25	X	75	10	C	2	1					3			
		150	X	175	31	C		1					1			
													6	32.8	211	
15430	Y	15	X	15	3	C		1					1			NO SULPHIDES
		25	X	25	5	C	1						1			
		50	X	50	8	C	1						1			
		50	X	75	13	C	1	1					2			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

H15ALLV0.MR2
TOTAL # OF PANNINGS 40

SAMPLE #	PANNED Y/N	DIAM	ETER		INCHES		NUMBER OF GRAINS: ROUNDED T	ROUNDED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	MIN MAG GRS	CALC V.G. AGREE FMS	REMARKS
													5	35.6	24	
15431	N	50	X	75	13	C	1						1			
													1	16.1	23	
15439	Y	15	X	15	3	C	1						1			NO SULPHIDES
		50	X	50	10	C	1						1			
													2	30.5	6	
15440	Y	25	X	25	5	C		1					1			NO SULPHIDES
		50	X	50	8	C	2	4					6			
		50	X	75	13	C		1					1			
		75	X	100	15	C	1						1			
		75	X	125	20	C	1						1			
		100	X	150	20	C		1					1			
		125	X	175	20	C	1						1			
													12	78.5	139	
15441	N	NO VISIBLE GOLD														
15442	Y	15	X	15	3	C						1	1			NO SULPHIDES
		25	X	25	5	C			1				1			
		50	X	50	8	C		1		1			2			
		75	X	75	16	C	1	1	1				3			
		50	X	75	13	C	4	1					5			
		75	X	100	15	C	1						1			
		75	X	100	16	C	1						1			
		100	X	225	31	C			1				1			
													15	22.5	460	
15459	N	NO VISIBLE GOLD														
15460	Y	15	X	15	3	C		2					2			NO SULPHIDES
		25	X	25	5	C	7	10					17			
		50	X	50	8	C	3	1					4			
		75	X	75	15	C	1						1			
		100	X	100	15	C	1						1			
		50	X	50	10	C	3	2					5			
		75	X	125	15	C	1	1					2			
		75	X	100	18	C	1						1			
													36	74.5	81	
15472	N	25	X	50	8	C	1						1			
													1	68.9	1	
15473	Y	25	X	25	5	C	1					1	2			NO SULPHIDES
		50	X	50	8	C	5	1					6			
		75	X	75	18	C	1	1					2			
		100	X	100	15	C	1						1			
		50	X	50	10	C	2						2			
		75	X	75	13	C	1						1			
		100	X	100	15	C	2						2			
		75	X	75	15	C		1					1			
		75	X	100	16	C	1						1			
													18	59.9	125	
15479	Y	25	X	25	5	C	1	3	1				5			NO SULPHIDES
		75	X	75	18	C	1						1			
		100	X	100	15	C		1					1			
		50	X	50	10	C		1					1			
		75	X	75	13	C	2						2			
		100	X	100	15	C	1	2					3			
		100	X	100	16	C	1						1			
		125	X	125	20	C		2					2			
													16	21	350	
15480	Y	15	X	15	3	C		1					1			NO SULPHIDES
		25	X	25	5	C	8	2					10			
		50	X	50	8	C	7	2					9			
		75	X	75	16	C	1						1			
		100	X	100	13	C		1					1			
		75	X	75	13	C	2						2			
		75	X	75	15	C		1					1			
		100	X	100	16	C		1					1			
		150	X	150	25	C	1						1			
		375	X	375	125	C	1						1			
		400	X	600	100	C		1					1			
													29	22.5	13044	
15481	N	NO VISIBLE GOLD														
15482	N	NOT A TILL SAMPLE: VG NOT COUNTED														
15483	Y	15	X	15	3	C			1	1			2			NO SULPHIDES
		25	X	25	5	C	1						1			
		25	X	50	8	C	1						1			

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

H1S01.RE.WB2
TOTAL # OF PANNINGS: 40

SAMPLE # PANNED Y/N	DIAM	ENTER		THICKNESS		NUMBER OF GRAINS: RECOVERED T	RECOVERED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	MIN MEAS GMS	CALC V.G. ASSAY FPD	REMARKS
	50	X	50	10	C		1					1			
	200	X	350	50	C	1						1			
												6	12.5	2582	

ABBREVIATIONS

NUMBER OF GRAINS:

T: NUMBER FOUND ON SHAKING TABLE
P: NUMBER FOUND AFTER PANNING

THICKNESS:

C: CALCULATED THICKNESS OF GRAIN
M: ACTUAL MEASURED THICKNESS OF GRAIN

OVERBURDEN DRILLING MANAGEMENT LIMITED
LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KILOGRAMS WET)						WEIGHT (GRAMS DRY)				AU		DESCRIPTION											C
								M. I. CONC.	NON MAG	MAG			CLAS		T			MATRIX						
	BULK REC'ED	EXCESS STORED	TABLE SPLIT	+2 MM CHIPS	1-2 MM	TABLE FEED	M.I. LIGHTS	TOTAL			NO. V.G.	CALC PPB	SIZE	V/S	% GR	LS	OT	S/U	SD	ST	CY	COLC SD	R CY	OR	
15000s																								
15389	10.9	0.0	10.9	1.0	0.7	9.3	280.2	56.0	49.0	7.0	9	40	P	80	20	0	NA	U	Y	Y	Y	LOC	LOC	N	TILI
15390	13.6	2.1	11.5	1.3	0.9	9.4	213.6	13.4	12.8	0.6	0	0	P	95	5	0	NA	U	Y	Y	Y	OC	OC	N	TILI
15391	10.9	0.0	10.9	1.5	0.7	8.7	368.1	29.5	22.9	6.6	0	0	P	90	10	0	NA	U	Y	Y	Y	OC	OC	N	TILI
15392	10.2	0.0	10.2	1.1	0.6	8.5	264.1	45.0	36.7	8.3	2	15	P	95	5	0	NA	U	Y	Y	Y	OC	OC	N	TILI
15393	9.4	0.0	9.4	0.6	0.3	8.5	197.2	47.3	41.9	5.4	2	66	P	100	0	0	NA	U	Y	Y	Y	OC	OC	N	TILI
15394	10.2	0.0	10.2	1.7	1.1	7.5	301.8	20.2	18.6	1.6	6	844	P	100	0	0	NA	U	Y	Y	Y	OC	OC	N	TILI
15395	11.0	0.0	11.0	2.3	1.0	7.8	209.2	38.0	34.2	3.8	4	99	P	95	5	0	NA	U	Y	Y	Y	OC	OC	N	TILI
15396	10.7	0.0	10.7	0.8	0.9	9.0	299.0	27.2	23.8	3.4	4	42	P	95	5	0	NA	U	Y	Y	Y	LOC	LOC	N	TILI
15397	11.1	0.0	11.1	2.3	1.3	7.6	263.9	13.0	11.1	1.9	12	186	P	100	0	0	NA	U	Y	Y	Y	LOC	LOC	N	TILI
15398	12.2	0.0	12.2	1.3	0.9	10.0	295.2	81.0	78.0	3.0	23	112	P	75	25	0	NA	U	Y	Y	Y	LOC	LOC	N	TILI
15399	12.8	0.0	12.8	2.2	0.8	9.8	287.9	47.6	39.4	8.2	8	128	P	80	20	0	NA	U	Y	Y	Y	LOC	LOC	N	TILI
15427	11.6	0.0	11.6	3.0	1.1	7.5	299.5	31.6	26.4	5.2	15	198	P	100	0	0	NA	U	Y	Y	Y	OC	OC	N	TILI
15428	9.5	0.0	9.5	1.2	0.5	7.8	298.6	28.6	25.0	3.6	0	0	P	100	0	0	NA	U	Y	Y	Y	OC	OC	N	TILI
15429	11.1	0.0	11.1	2.3	1.4	7.4	521.7	45.5	32.8	12.7	6	211	P	95	5	0	NA	U	Y	Y	Y	OC	OC	N	TILI
15430	12.3	0.0	12.3	2.4	1.3	8.7	301.2	40.3	35.6	4.7	5	24	P	95	5	0	NA	U	Y	Y	Y	LOC	LOC	N	TILI
15431	11.4	0.0	11.4	2.7	1.6	7.2	305.5	21.6	16.1	5.5	1	23	P	95	5	0	NA	U	Y	Y	Y	LOC	LOC	N	TILI
15439	14.1	3.1	11.0	3.3	1.0	6.8	245.5	44.8	30.5	14.3	2	6	P	85	15	0	NA	U	Y	Y	Y	OC	OC	N	TILI
15440	17.0	5.0	12.0	3.2	1.0	7.9	250.0	118.6	70.5	48.1	12	139	P	80	20	0	NA	U	Y	Y	Y	LOC	LOC	N	TILI
15441	12.1	2.1	10.0	1.8	0.6	7.7	185.2	22.7	18.3	4.4	0	0	C	85	15	0	NA	U	Y	Y	Y	LOC	LOC	Y	TILI
15442	12.5	1.5	11.0	2.5	0.8	7.8	198.1	28.5	22.5	6.0	15	468	P	80	20	0	NA	U	Y	Y	Y	LOC	LOC	Y	TILI
15459	12.6	0.0	12.6	0.9	0.3	11.4	319.4	92.3	91.7	0.6	0	0	P	70	30	0	NA	U	Y	Y	Y	LOC	LOC	Y	TILI
15460	14.5	3.5	11.0	1.3	0.5	9.3	200.5	81.3	74.5	6.8	35	81	P	75	25	0	NA	U	Y	Y	Y	LOC	LOC	Y	TILI
15472	13.5	3.0	10.5	3.0	1.1	6.5	313.8	106.6	60.9	45.7	1	1	P	95	5	0	NA	U	Y	Y	Y	OC	OC	Y	TILI
15473	15.1	4.6	10.5	1.7	0.6	8.3	370.9	42.7	39.9	2.8	18	125	P	85	15	0	NA	U	Y	Y	Y	LOC	LOC	Y	TILI
15479	15.3	4.8	10.5	2.2	0.3	8.1	218.5	21.4	21.0	0.4	16	360	P	90	10	0	NA	U	Y	Y	Y	LOC	LOC	Y	TILI
15480	10.3	0.0	10.3	2.1	0.5	7.7	321.4	26.7	22.5	4.2	29	13044	P	95	5	0	NA	U	Y	Y	Y	LOC	LOC	Y	TILI
15481	8.8	0.0	8.8	1.5	0.3	7.0	302.8	7.5	6.2	1.3	0	0	P	95	5	0	NA	U	Y	Y	Y	LOC	LOC	Y	TILI
15482	18.8	6.8	12.0	2.3	4.0	5.7	203.0	4.1	2.7	1.4	0	0	P	85	15	0	NA	S	C	-	N	LOC	NA	Y	SAN
15483	15.6	4.6	11.0	2.4	0.7	7.9	328.0	19.4	12.5	6.9	6	2302	P	90	10	0	NA	U	Y	Y	Y	LOC	LOC	Y	TILI

HUBACHECK CONSULTING
OVERBURDEN DRILLING MANAGEMENT LIMITED
CONCENTRATE SAMPLE WEIGHTS (SG > 3.20) AND K.I.M. COUNTS

SS

TABLE CONCENTRATE

SAMPLE NUMBER	0.25 to 1.0 mm M.I. Separate (GRAMS) TOTAL	LIGHTS	CONC. TOTAL	NON MAG TOTAL	NON MAG <0.25 MM	NON MAG 0.25-0.5 MM	NON MAG >0.5 MM	MAG	NUMBER OF GRAINS 0.5 TO 1 MM GP	GO	DC	IM	CR	0.25-0.5 MM GP	DC	TOTAL KIMs	REMARKS
15389	336.2	280.2	56.0	49.0	44.9	3.3	0.8	7.0	0	0	0	0	0	0	0	0	
15390	227.0	213.6	13.4	12.8	10.0	1.9	0.9	0.6	0	0	0	0	0	0	0	0	
15391	397.6	368.1	29.5	22.9	19.7	2.2	1.0	6.6	0	0	0	0	0	3	0	3	See Footnotes
15392	309.1	264.1	45.0	36.7	31.8	3.5	1.4	8.3	0	0	0	0	0	5	1	6	- Picked 1 chromite from <0.50 mm fraction.
15393	244.8	197.2	47.3	41.9	36.4	2.4	1.1	5.4	0	0	0	0	0	2	1	3	- SEM check of 1 red pyrope(?) from <0.50 mm fraction -- confirmed
15394	322.0	301.8	20.2	18.6	15.2	2.3	1.1	1.6	0	0	0	0	0	0	0	0	See Footnotes
15395	247.2	209.2	38.0	34.2	31.6	2.0	0.6	3.8	0	0	0	0	0	0	0	0	
15396	326.2	299.0	27.2	23.8	20.3	2.7	0.8	3.4	0	0	0	0	0	0	0	0	
15397	294.0	263.9	30.1	11.1	9.2	1.3	0.6	19.0	0	0	0	0	0	0	0	0	
15398	376.2	298.2	81.0	78.0	69.8	6.9	1.3	3.0	0	0	0	0	0	0	0	0	
15399	335.5	287.9	47.6	39.4	34.8	3.0	1.6	8.2	0	0	0	0	0	0	0	0	
15427	331.1	299.5	31.6	26.4	24.6	1.3	0.5	5.2	0	0	0	0	0	1	1	2	
15428	327.2	298.6	28.6	25.0	22.3	1.8	0.9	3.6	0	0	0	0	0	0	0	0	See Footnotes
15429	966.2	921.7	44.5	31.8	21.9	6.9	3.0	12.7	0	0	0	1	0	3	0	4	- Picked 1 low-Cr diopside from <0.50 mm fraction.
15430	421.6	381.2	40.3	35.6	30.9	3.6	1.1	4.7	0	0	0	0	1	1	0	2	
15431	327.1	308.5	21.6	16.1	10.2	4.1	1.8	5.5	0	0	0	0	0	1	0	1	- Picked 1 chromite from <0.50 mm fraction.
15440	368.6	290.0	118.6	70.5	60.9	7.6	2.0	48.1	0	0	0	0	0	0	0	0	
15441	207.9	186.2	22.7	18.3	16.8	1.1	0.4	4.4	0	0	0	0	0	0	0	0	See Footnotes
15442	228.6	190.1	38.5	22.5	19.5	2.3	0.7	6.0	0	0	0	1	0	1	0	2	See Footnotes
15439	411.7	319.4	92.3	91.7	83.8	6.1	1.8	0.6	0	0	0	0	0	0	0	0	
15440	281.8	200.5	81.3	74.5	68.4	4.6	1.5	6.8	0	0	0	2	0	0	1	3	See Footnotes
15472	420.4	313.8	106.6	60.9	46.4	12.4	2.1	45.7	0	0	0	0	0	1	1	2	- Picked 1 orange garnet from <0.50 mm fraction.
15473	413.6	370.9	42.7	39.9	34.6	3.8	1.5	2.8	1	0	0	0	0	3	0	4	- Purple garnet in >0.50 mm fraction has olivine attached.
15479	299.9	218.5	21.4	21.0	18.0	2.0	1.0	0.4	0	1	0	0	0	1	1	3	See Footnotes
15480	248.1	221.4	26.7	22.5	18.1	2.9	1.5	4.2	0	0	0	1	0	0	0	1	See Footnotes
15481	209.3	202.8	6.5	5.2	4.8	0.4	0.0	1.3	0	0	0	0	0	0	0	0	
15482	207.1	203.0	4.1	2.7	0.3	1.1	1.3	1.4	0	0	0	1	0	0	0	1	See Footnotes
15483	347.4	328.0	19.4	12.5	9.2	2.4	0.9	6.9	0	0	0	0	0	2	0	2	See Footnotes

HUBA3MAY.WR1 OVERBURDEN DRILLING MANAGEMENT LIMITED
TOTAL # OF SAMPLES IN THIS REPORT = 17

LABORATORY SAMPLE LOG

SAMPLE NO.	WEIGHT (KG.WET)			WEIGHT (GRAMS DRY)					DESCRIPTION												CLASS
						N. I. CONC			CLAST				MATRIX								
	BULK	)2.0 MM	TABLE FEED	TABLE CONC	N.I. LIGHTS	CONC. TOTAL	NON MAG	MAG	SIZE	% V/S	% GR	% LS	% OT	S/U	SD	ST	CY	COLOR SD	COLOR CY	OR	
19013	10.0	0.1	10.0	602.5	476.9	125.6	111.8	13.8	P	70	30	0	NA	U	+	-	N	B	NA	N	TILL
19014	5.1	0.4	4.7	212.6	164.2	48.6	40.8	7.8	P	90	10	0	NA	U	+	-	-	B	B	N	TILL
19015	8.8	0.5	8.4	324.4	250.7	73.7	58.8	14.9	C	80	20	0	NA	U	+	-	-	GB	B	N	TILL
19016	5.4	0.1	5.3	351.2	302.1	49.1	42.1	7.0	C	90	10	0	NA	U	+	-	-	B	B	N	TILL
19017	6.9	0.2	6.7	336.8	263.1	73.7	61.8	11.9	C	95	5	0	NA	U	Y	Y	Y	B	B	N	TILL

OVERBURDEN DRILLING MANAGEMENT LIMITED

GOLD GRAIN SUMMARY SHEET

HUBA3MAY.WK1

Sample No.	Number of Visible Gold Grains				Non-Mag Weight	Calculated PPB Visible Gold			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
19013	5	4	0	1	111.8	30	29	0	1
19014	2	1	0	1	40.8	46	37	0	9
19015	2	2	0	0	58.8	335	335	0	0
19016	0	0	0	0	42.1	0	0	0	0
19017	5	5	0	0	61.8	85	85	0	0

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

HUBA2MAY.WR1

TOTAL # OF PANNINGS 17

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	NUMBER OF GRAINS: RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC V.G. ASSAY PPB	REMARKS
19013	Y	25 x 50	8 C	1					1	2			NO SULPHIDES
		50 X 75	13 C	1						1			
		50 X 100	15 C		1					1			
		75 X 150	22 C	1						1			
										5	111.8	30	
19014	Y	50 X 75	13 C						1	1			NO SULPHIDES
		100 X 100	20 C	1						1			
										2	40.8	46	
19015	Y	75 X 100	18 C		1					1			EST. 0.5% PYRITE
		200 X 275	44 C	1						1			
										2	58.8	335	
19016	Y	NO VISIBLE GOLD											EST. 0.1% PYRITE
19017	Y	25 X 25	5 C		1					1			EST. 0.2% PYRITE
		25 X 50	8 C	1						1			
		75 X 125	20 C		2					2			
		100 X 125	22 C	1						1			
										5	61.8	85	

GOLD CLASSIFICATION

VISIBLE GOLD FROM SHAKING TABLE AND PANNING

HUBA3WAY.WR1
TOTAL # OF PANNINGS 17

SAMPLE #	PANNED Y/N	DIAMETER	THICKNESS	NUMBER OF GRAINS: RESHAPED T	RESHAPED P	MODIFIED T	MODIFIED P	PRISTINE T	PRISTINE P	TOTAL	NON MAG GMS	CALC v.G. ASSAY PPB	REMARKS
		50 X 75	13 C	1						1			
		75 X 100	18 C	1	1					2			
		100 X 150	25 C	1						1			
		100 X 175	27 C	1						1			
		125 X 175	29 C	1						1			
										13	108.5	139	
19007	Y	25 X 25	5 C	2						2			EST. 2% PYRITE
		25 X 50	8 C	1	1		1			3			
		50 X 75	13 C	1						1			
		50 X 100	15 C	1						1			
										7	182.3	7	
19008	Y	25 X 25	5 C		1					1			EST. 2% PYRITE
		25 X 50	8 C		2					2			
		50 X 50	10 C	2	1					3			
		50 X 75	13 C				1			1			
		50 X 150	20 C	1						1			
		75 X 75	15 C	1						1			
		75 X 100	18 C	1						1			
										10	102.8	42	
19009	Y	25 X 25	5 C		1					1			EST. 1% PYRITE
		25 X 50	8 C		1					1			
		50 X 50	10 C		1					1			
		50 X 75	13 C		2					2			
		50 X 100	15 C		1					1			
		75 X 125	20 C	1						1			
										7	112.2	28	
19010	Y	25 X 50	8 C		1					1			EST. 1% PYRITE
		25 X 75	10 C		1					1			
		75 X 100	18 C	1						1			
										3	118.5	11	
19011	Y	50 X 100	15 C		1					1			EST. 0.5% PYRITE
										1	104.5	6	
19013	Y	25 X 50	8 C	1					1	2			NO SULPHIDES

LOASSYS.XLS

FILE:3R-0548-RG		ASSAYERS	LABORATORIES
SAMPLE_I	AU	AU CKS	AU CKS
SAMPLE_I	PPB	PPB	PPB
18638	20	24	15
18639	11		
18640	10		
18641	8		
18642	7		
18643	11	13	8
18645	7		
18646	9		
18647	10		
18648	7		
18649	14		
18650	8		
18651	13		
18669	9		
18670	20	13	23
18671	12		
18672	8		
18673	9		
18674	9		

OVERBURDEN DRILLING MANAGEMENT LIMITED - LABORATORY SAMPLE LOG

ABBREVIATIONS

DATA LOG

Clast:

Size of Clast:

- G: Granules
- P: Pebbles
- C: Cobbles
- BL: Boulder Chips
- BK: Bedrock Chips

% Clast Composition:

- V/S: Volcanics and Sediments
- GR: Granitics
- LS: Limestone
- OT: Other Lithologies (Refer to Footnotes)
- TR: Only Trace Present
- NA: NOT APPLICABLE
- OX: Oxidized

Matrix:

- S/U: Sorted or Unsorted
- SD: Sand ---------- F: Fine
- ST: Silt | M: Medium
- CY: Clay | C: Coarse
- OR: Organics

- Y: Fraction Present
- +: Fraction more abundant than normal
- -: Fraction less abundant than normal
- N: Fraction Not Present
- L: Lumps Present

Colour:

- B: Beige
- GY: Grey
- GB: Grey Beige
- GN: Green
- GG: Grey Green
- BN: Brown
- BK: Black
- PP: Purple
- PK: Pink
- OC: Ochre
- DOC: Dark Ochre
- MOC: Medium Ochre
- LOC: Light Ochre

GOLD LOG

Number of Grains:

- T: Number Found on Shaking Table
- P: Number Found by Panning

Thickness:

- C: Calculated Thickness of Grain
- M: Actual Measured Thickness of Grain
- E: Estimated Thickness of Grain

GP = PYROPE GARNET
GO = ORANGE GARNET
DC = CHROME DIOPSIDE
IM = PICROILMENITE
CR = CHROMITE

W.A.H.UBACHECK CONSULTANTS LTD.

TORONTO, ONTARIO, CANADA

REVERSE CIRCULATION DRILL HOLE LOG

COMPANY _____ HOLE No. 10-12

CONTRACTOR _____ LOCATION _____

DRILLER _____ BIT No. CB 70697 BIT FOOTAGE 505-520

MOVE TO HOLE 8:30 - 9:45

DRILL 9:45 - 10:00 MECHANICAL DOWN TIME _____

DRILLING PROBLEMS _____ DATE MAR 16/93

OTHER CLAIM 1155225 McWITTIE TWP SHIFT _____ TO _____

MOVE TO NEXT HOLE 10:00 - 10:45 TOTAL HOURS _____

GEOLOGIST D. JAMIESON SAMPLER C. PENTEAU CONTRACT HOURS _____

David Jamieson

DEPTH Feet ☐ Metres ☐	GRAPHIC LOG	SAMPLE No.	DESCRIPTIVE LOG
			0-10 overburden 1.0-1.5 bedrock - dk green mafic volcanic No till No samples

Ministry of Northern Development and Mines

Ontario

Report of Work Conducted After Recording Claim

Mining Act

DOCUMENT NO.
9480 • 00172

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, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

2.15394

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

32D04NE0050 2.15394 GAUTHIER

900

Recorded Holder(s)	Client No.
SUDBURY CONTACT MINES LTD.	198617
Address: 401 BAY STREET, SUITE 2302 P.O. BOX 102, TORONTO, ONT. M5H 2Y4	Telephone No.: (416)947-1212
Mining Division: LARDER LAKE	Township/Area: GAUTHIER/McVITTIE/ARNOLD/KATRINE
Dates Work Performed: MARCH 5,6,11,12,13,14,16, 17,18,21 AND JULY 10,11, 1993 To:	M or G Plan No.: M357, G3163, M321, G3211

Work Performed (Check One Work Group Only)

	Work Group	Type
X	Geotechnical Survey	OVERBURDEN DRILLING (REVERSE CIRCULATION)
	Physical Work, Including Drilling	
	Rehabilitation	
	Other Authorized Work	
	Assays	
	Assignment from Reserve	

I2013

RECEIVED
MAY 20 1994
MINING LANDS BRANCH

Total Assessment Work Claimed on the Attached Statement of Costs $ ~~51,966.19~~ 45915.

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 R. JAMIESON	31 FINCHURST ROAD PETERBOROUGH, ONTARIO K9J 8E9
HEATH & SHERWOOD DRILLING INC.	P.O. BOX 998, 34 DUNCAN AVE NORTH KIRKLAND LAKE, ONTARIO P2N 3L3
OVERBURDEN DRILLING MANAGEMENT LTD.	107 - 15 CAPELLA COURT, NEPEAN, ONTARIO K2E 7X1

(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 5, 1994	Recorded Holder or Agent (Signature): David Jamieson

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 R. JAMIESON, 31 FINCHURST ROAD, PETERBOROUGH, ONTARIO K9J 8E9

Telephone No.	Date	Certified By (Signature)
705-741-1849	APRIL 5, 1994	David Jamieson

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
applied for $51966 ~~$51966~~ 44588 Reserve # 13277 $36000	April 11/94 FT	acting Ronald Stott	RECEIVED LARDER LAKE MINING DIVISION APR 11 1994
	Deemed Approval Date: July 10/94	Date Approved	
	Date Notice for Amendments Sent		

241 03/91

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 this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	1180457	16	1301.00	0	1301.00	
	1180458	16	1301.00	0	1301.00	
	1180459	16	325.00	0	325.00	
	1180464	16	2214.00	7200.00	0	
	1180465	16	6938.00	6938.00	0	
	1180477	16	325.00	[illegible]	325.00	
	1180478	16	5761.00	0	5761.00	
	1180479	16	8668.00	0	7341.00	1327.00
	1180508	10	3302.00	0	3302.00	
	1180509	16	4232.00	0	4232.00	
	1180510	3	325.00	0	325.00	
	1180515	3	325.00	1350.00	0	
	118216	16	2088.00	0	510.00	
	1186217	15	2088.00	7000.00	0	
	1186223	4	2966.00	1800.00	1166.00	
	1186224	16	0	0	0	
	118260	12	0	3200.00	0	
	Total Number of Claims		Total Value Work Done	Total Value Work Applied	Total Assigned From	Total Reserve

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:

1. ☐ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☐ Credits are to be cut back equally over all claims contained in this report of work.
3. ☐ 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

Date

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 this Claim	Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
	1180460	16	0	7200.00	0	
	1180513	8	3756.00	3600.00	156.00	
	1186222	2	0	900.00	0	
	6 118261	12	0	5400.00	0	
	Total Number of Claims:		Total Value Work Done: 45,915	Total Value Work Applied: 44588	Total Assigned From:	Total Reserve: 1327.00

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 priorize the deletion of credits. Please mark (✓) one of the following:

1. ☐ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☒ Credits are to be cut back equally over all claims contained in this report of work.
3. ☐ Credits are to be cut back as priorized 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	Date

Ontario

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.

3 9480• 00172

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, Mininga 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 servent 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, 4e 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'oeuvre	1900.00	
	Field Supervision Supervision sur le terrain	3900.00	
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type REVERSE CIRCULATION DRILLING	23,389.31	
	OVERBURDEN DRILL.MGEMNT.	11,505.00	
Supplies Used Fournitures utilisées	Type GAS & OIL	304.27	
	FIELD SUPPLIES	158.10	462.37
Equipment Rental Location de matériel	Type TELEFIX GPS MAGELLAN	585.30	
			585.30
		Total Direct Costs Total des coûts directs	41741.98

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 SAMPLE SHIPPING PAILS	771.64	
	TRUCK/ATV RENTAL	1609.18	
			2380.82
Food and Lodging Nourriture et hébergement		1467.20	1467.20
Rehabilitation and Demobilization Réhabilitation et démobilisation		325.00	325.00
		Sub Total of Indirect Costs Total partiel des coûts indirects	4173.02
Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)			4173.02
Total Value of Assessment Credit (Total of Direct and Allowable Indirect costs)		Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)	45915.00

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	Évaluation 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 CONTRACT 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 _____ (titulaire enregistré, représentant, poste occupé dans la compagnie) je suis autorisé à faire cette attestation.

Signature: [signature]

Date: MAY 10, 1994

6212 (94/05)

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

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Geoscience Approvals Section
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

File: 2.15394
Transaction #: W9480.00172

July 7, 1994

Mining Recorder
Ministry of Northern Development & Mines
4 Government Road East
Kirkland Lake, Ontario
P2N 1A2

Dear Sir/Madam:

Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS L.1180457 ET AL IN GAUTHIER, MCVITTIE, ARNOLD AND KATRINE TOWNSHIPS

Assessment work credits have been approved as outlined on the original work report form for the submission. The credits have been approved under Section 10 (Overburden Drilling) of the Mining Act Regulations.

The approval date is July 6, 1994.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5855.

Yours sincerely,

Ron C. Gashinski
Senior Manager, Mining Lands Section
Mining and Land Management Branch
Mines and Minerals Division

/lj/lj

cc: Resident Geologist
Kirkland Lake, Ontario

Assessment Files Library
Sudbury, Ontario

BEN NEVIS TP. M 325

1186412

1186231

1186243

1186232

1186244

1186245

1200149

1200012

1180480

1180460

1186260

1186261

1180513

1180465

1180464

1186222

1186223

1187252

1187251

1187127

NO OPEN GROUND

1186706

REG. PLAN M320

McVITTIE TP. M 310

THE TOWNSHIP
OF

KAPUSKASING

DISTRICT OF
TIMISKAMING

LAPDER LAKE
MINING DIVISION

SCALE: 1 INCH = 40 CHAINS

LEGEND

Areas withdrawn from Staking under section 43
of the Mining Act

Order no.	File	Date	Disposition
N. NW. 83 80	0546	4/80	S.R.+M.R.
N½ NW. 80 80		6/4/81	S.R.
~~N½ Sec. 16/80~~ ~~W.R.~~		20/2/86	S.+M.

E½ of W½ SE. and W. 50.86 (M.A.S. Rights) opened under no. 0 103/87 NR de 2/87

S. ½ SE. (S.R. + M.R.) Opened by Order No. 0 103/87 dated 2nd Jan 5/87

~~W½ SW. Sec. 36 and the W. 50.86 (M.A.S. Rights) opened under no. 0 103/87 dated 2nd Jan 5/87~~

W½ SW. Sec. 36 and the W. 50.86 (M.A.S. Rights) opened under no. 0 103/87 dated 2nd Jan 5/87

W½ SW. Sec. 36 ORDER NO. 0 103/87 DATED 2nd JAN 5/87

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 LAND SHOWN HEREON

CIRCULATED MAP NO. 2320

M.325

ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

M.325

32D04NE0050 2 15394 GAUTHIER

200

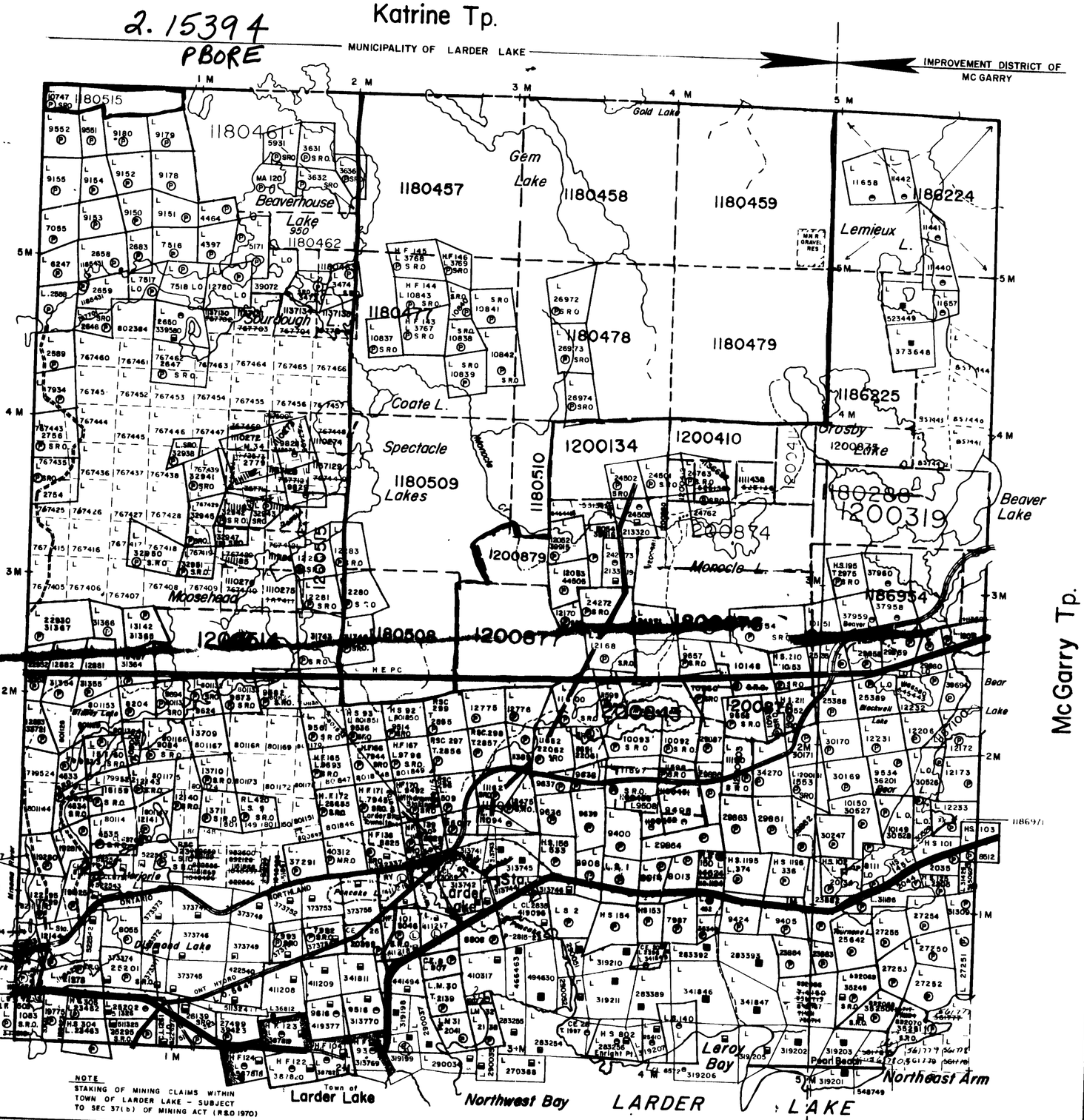
TRIM LINE

2.15394
PBORE

Katrine Tp.

MUNICIPALITY OF LARDER LAKE

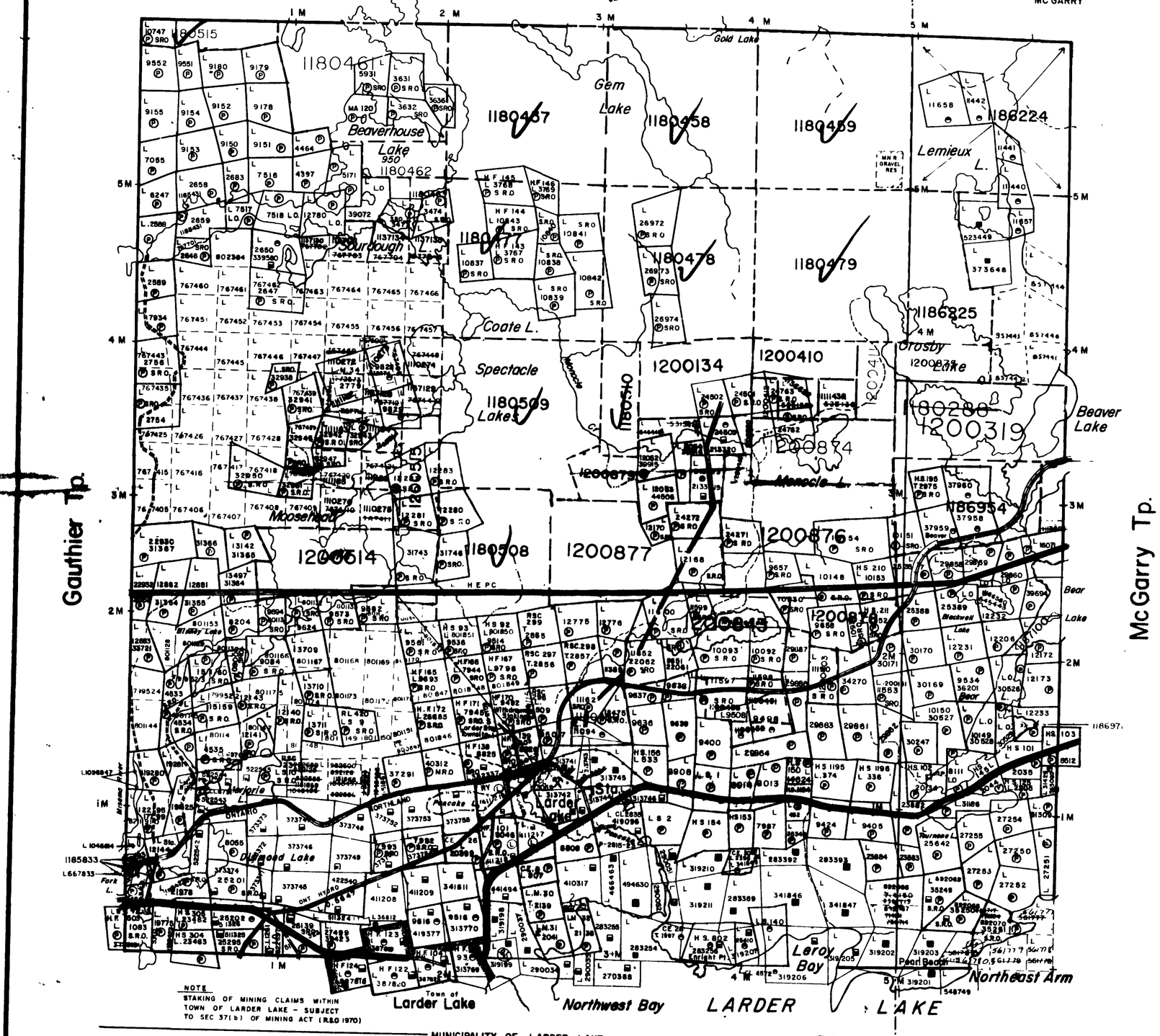
IMPROVEMENT DISTRICT OF MC GARRY



TRIM LINE

Katrine Tp.

MUNICIPALITY OF LARDER LAKE — IMPROVEMENT DISTRICT OF MC GARRY



Gauthier Tp.

McGarry Tp.

Hearst Tp.

NOTE
STAKING OF MINING CLAIMS WITHIN TOWN OF LARDER LAKE – SUBJECT TO SEC 37(b) OF MINING ACT (R.S.O. 1970)

LEGEND

- HIGHWAY AND ROUTE No
- OTHER ROADS
- TRAILS
- SURVEYED LINES
  - TOWNSHIPS, BASE LINES, 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

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	(P) or ●
" , SURFACE RIGHTS ONLY	(P) S R O or ◒
" , MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	(L) or ■
" , SURFACE RIGHTS ONLY	■
" , MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION	L O or ▼
ORDER-IN-COUNCIL	OC
RESERVATION	⊕
CANCELLED	⊕
SAND & GRAVEL	⊕

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT R.S.O. 1970 CHAP. 380, SEC. 63 SUBSEC. 1

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

(R1) SEC 36/80 NRW 65/84 01/03/84 MR 4 SR
043/80 OPENS NRW 65/84
(R2) SEC 3 of 4 NW 1/4 11/29/85 MR 4 SR
D-L2/89NR OPENS NRW 23/85
(R3) SEC 3 of 4 W 9/80 2/07/1986 MR 3
SEC 3 of 4 W 11/86 12/6/86 MR
(R4) W-22/86 6/3/86 SEC 36 of 4 MR 3
TOWNSHIP D-02/88L OPENS W 22/86

McVITTIE

M.N.R. ADMINISTRATIVE DISTRICT
KIRKLAND LAKE

MINING DIVISION
LARDER LAKE

LAND TITLES / REGISTRY DIVISION
TIMISKAMING

DATE OF ISSUE
APR 20 1984

Ontario — Ministry of Natural Resources — Land Management Branch

Date SEPTEMBER 1984

Number G-3163

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.

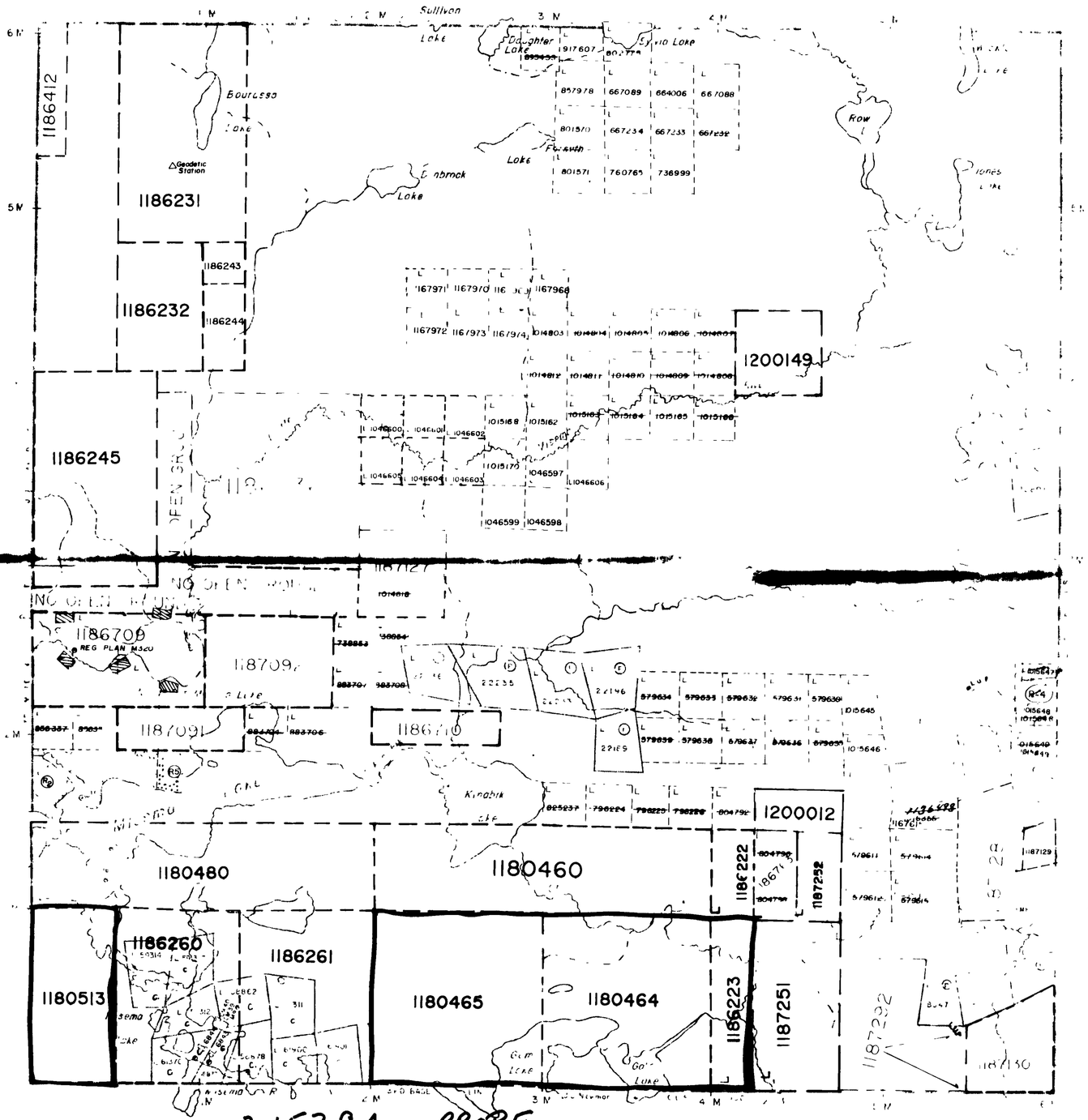
COPY OF THIS MYLAR ARCHIVED OCT. 31, 1991
ARCHIVED APR. 18, 1994

G-3163

TRIM LINE

M.357

BEN NEVIS I.P. M.325



2.15394 PBORE

McVITTIE TP. M.370

THE TOWNSHIP
OF

KATRINE

DISTRICT OF
TIMISKAMING

LARDER LAKE
MINING DIVISION

SCALE: 1-INCH 40 CHAINS

LEGEND

CROWN LAND SALE — C.S
LEASES — (L)
LOCATED LAND — L.L
LICENSE OF OCCUPATION — L.O
MINING RIGHTS ONLY — M.R.O
SURFACE RIGHTS ONLY — S.R.O
ROADS
IMPROVED ROAD
KING'S HIGHWAY
RAILWAY
POWER LINES
MARSH OR MUSKEG
MINES
CANCELLED
PATENTED S.R.O.

TOWN

Areas withdrawn from staking under Section 43 of the Mining Act

Order no	File	Date	Disposition
R_1 NR W 83/80	115462	16/4/80	S.R.+M.R.
R_2 NR W 89/80	115462	16/4/80	S.R.O.
~~R_3 See 36/80 W#/86~~		~~20/4/86~~	~~S.+M.~~

PT of W-8/86 and W-50/86 (M+S Rights) Opened Order no O-103/87 NR Dec 2/87

PT of W 8/86 (S.R. + M.R.) Opened by Order No. O-104/87 NR Dec 3/87

~~(14) W — 84 Mk Amb SH Jan —/1984~~

W 61/89 OPENED ORDER O-LB 89 NR APRIL 4/89

PT of W 93 (S.R.O. & M.) will open FEB 3, 1994

DATE RECEIVED
APR 20
MINING LANDS

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.

CIRCULATED MARCH 29, 1988.

PLAN NO. M. 357

ONTARIO
MINISTRY OF NATURAL RESOURCES
SURVEYS AND MAPPING BRANCH

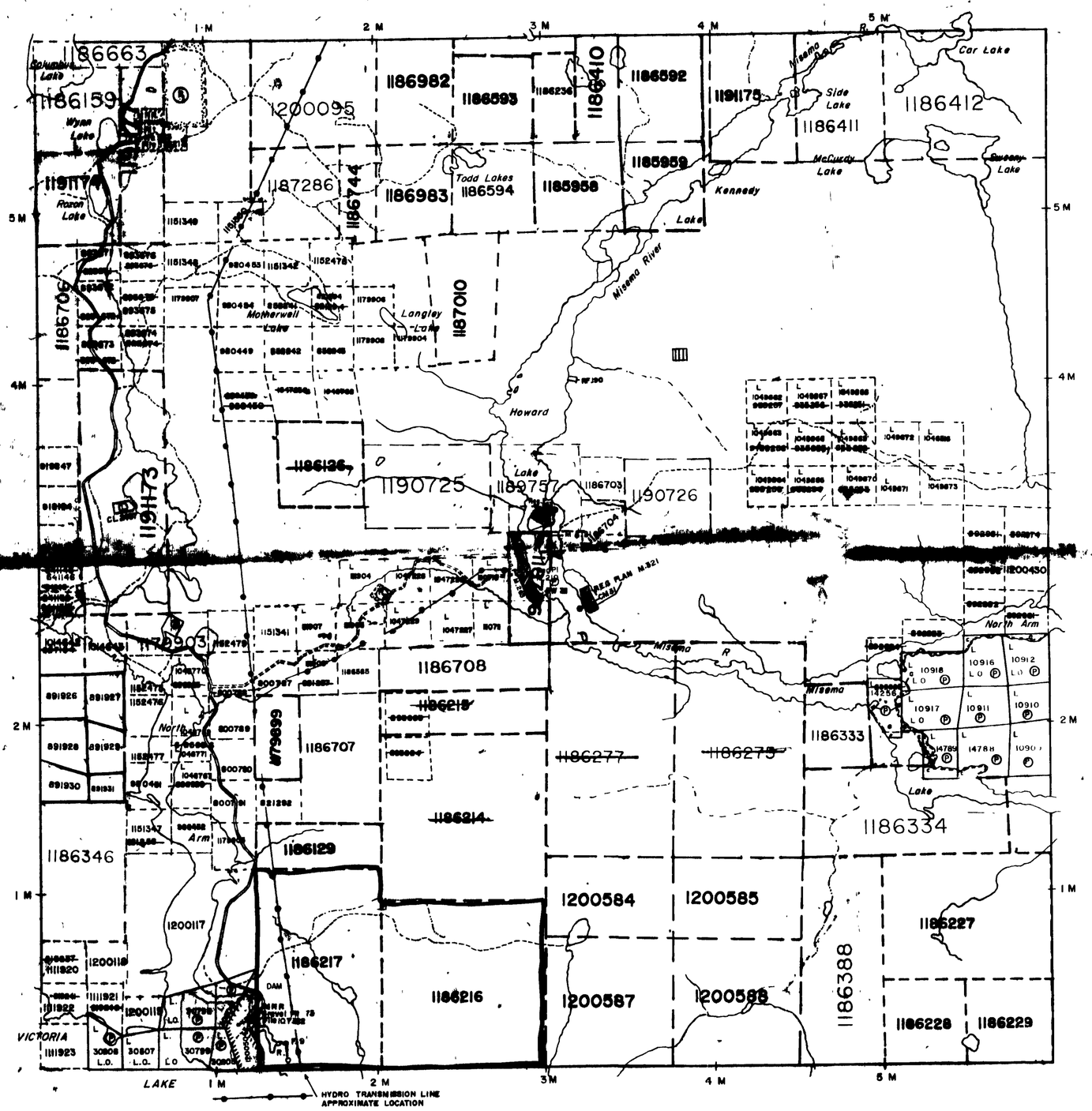
TRIM LINE

Clifford Twp. (M.338)

Morrisette Twp.(M.374)

Katrine Twp.(M.357)

Gauthier Twp.(M. 350)



THE TOWNSHIP OF

ARNOLD

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	P
CROWN LAND SALE	C.S.
LEASES	L
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.
PATENT SURFACE RIGHTS ONLY	P.

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers

Areas withdrawn from staking under Section 36 of the Mining Act (R.S.O 1980)

Order No. File Date Disposition

(R1) SURFACE RIGHTS WTHDRAWN FROM STAKING SECTION 43 ORDER (R.S.O.1970) FILE NO. 163497

(R2) SURFACE RIGHTS WITHDRAWN FROM STAKING SECTION 43 ORDER (R.S.O.1970) NO.NR W.32/79

~~(R4) SURFACE + MINING RIGHTS WITHDRAWN FROM STAKING,section 36/80 order NO. W/32/88~~
ORDER NO. O-34/88 OPENS W/32/88

(R5) SURFACE + MINING RIGHTS WITHDRAWN FROM STAKING,section 36/80 ORDER NO.W/33/88NR O-07/88L OPENS W-33/88NR

PROPOSED CROWN SUBDIVISION

DATE OF ISSUE APR 30 1994 LARDER LAKE MINING DIVISION

PLAN NO. M.321

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

COPY OF THIS MYLAR ARCHIVED APR.08/92

IN CIRCULATION JULY 8,1988 T.O.

2.15394 PBORE

NOTICE !!!

THIS TOWNSHIP/AREA FALLS WITHIN THE TIMISKAMING MANAGEMENT UNIT,AND MAY BE SUBJECT TO FORESTRY OPERATIONS THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT/ P.O.BOX 129 SWASTIKA,ONT.

ARCHIVED APR. 18, 1994

32D04NE0050 2 15394 GAUTHIER

240

TRIM LINE

M.351

...ION THAT THIS MAP ...OMPILED SOURCES, ... IS NOT THOSE ...AKE MIN-...ULD CON-... MINING ...ISTRY OF ...EVELOP-..., FOR AD-...RMATION ... OF THE ...EREON.

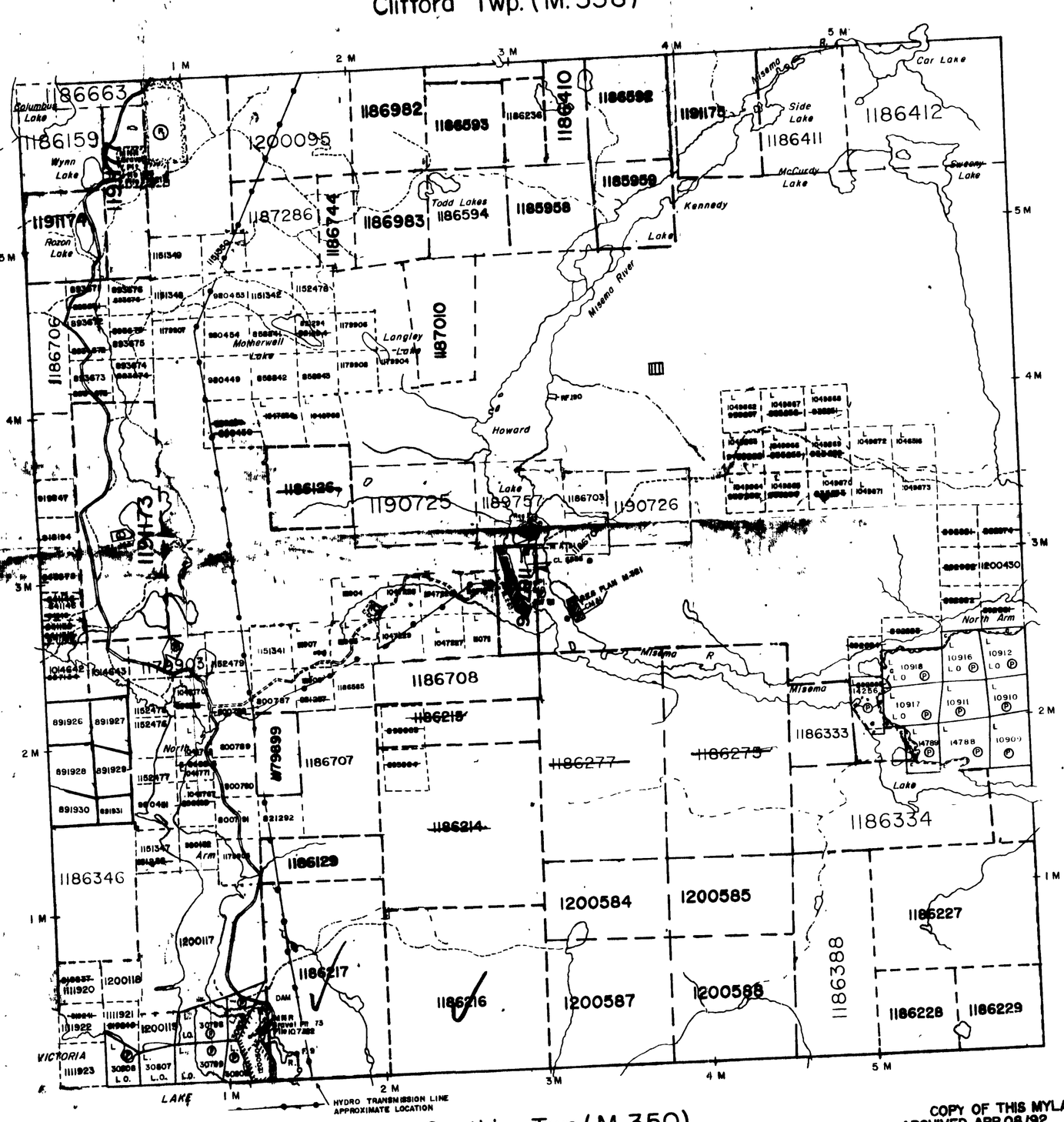
TRIM LINE

Clifford Twp. (M.338)

Morrisette Twp. (M.374)

Katrine Twp. (M.357).

Gauthier Twp. (M. 350)



THE TOWNSHIP OF

ARNOLD

DISTRICT OF TIMISKAMING

LARDER LAKE MINING DIVISION

SCALE: 1-INCH = 40 CHAINS

LEGEND

PATENTED LAND	(P)
CROWN LAND SALE	C.S.
LEASES	(L)
LOCATED LAND	Loc.
LICENSE OF OCCUPATION	L.O.
MINING RIGHTS ONLY	M.R.O.
SURFACE RIGHTS ONLY	S.R.O.
ROADS	
IMPROVED ROADS	
KING'S HIGHWAYS	
RAILWAYS	
POWER LINES	
MARSH OR MUSKEG	
MINES	
CANCELLED	C.
PATENT SURFACE RIGHTS ONLY	(P)

NOTES

400' Surface Rights Reservation along the shores of all lakes and rivers

Areas withdrawn from staking under Section 36 of the Mining Act (R.S.O. 1980)

Order No.	File	Date	Disposition

(R1) SURFACE RIGHTS WTHDRAWN FROM STAKING SECTION 43 ORDER (R.S.O.1970) FILE NO 163497

(R2) SURFACE RIGHTS WITHDRAWN FROM STAKING SECTION 43 ORDER (R.S.O.1970) NO NR W.32/79

~~(M) SURFACE + MINING RIGHTS WITHDRAWN FROM STAKING,section 36/80 order NO. W/32/88~~ ORDER NO. O-34/88 OPENS W/32/88

(R5) SURFACE + MINING RIGHTS WITHDRAWN FROM STAKING,section 36/80 ORDER NO.W/33/88NR O-07/88L OPENS W-33/88NR

PROPOSED CROWN SUBDIVISION

DATE OF SURVEY APR 20 1994

PLAN NO. M.321

MINISTRY OF NORTHERN DEVELOPMENT AND MINES

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.

COPY OF THIS MYLAR ARCHIVED APR.08/92

IN CIRCULATION JULY 6,1988 T.O.

32D04NE0050 2 15394 GAUTHIER

250

NOTICE !!!

THIS TOWNSHIP/AREA FALLS WITHIN THE TIMISKAMING MANAGEMENT UNIT AND MAY BE SUBJECT TO FORESTRY OPERATIONS THE MNR UNIT FORESTER FOR THIS AREA CAN BE CONTACTED AT: P.O.BOX 129 SWASTIKA,ONT.

ARCHIVED APR. 18, 1994

2.15394

SUDBURY CONTACT MINES LIMITED
Moosehead Project
Property Division
as of
December 1992

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000

METRES 0 200 1000 (1 KM) 2000 (2 KM)

NOTE
STAKING OF MINING CLAIMS WITHIN TOWN OF LARDER LAKE - SUBJECT TO SEC. 37(6) OF MINING ACT (R.S.O 1970).

LEBEL TP.

McELROY TP.

MUNICIPALITY OF LARDER LAKE

Hearst Tp.

IMPROVEMENT DISTRICT OF MC GARRY

McGarry Tp.

Larder Lake

Northwest Bay

LARDER LAKE

Northeast Arm

Beaver Lake

Gem Lake

Beaverhouse Lake

Gold Lake

Moosehead

Coate L.

Spectacle Lakes

Crosbie Lake

Lemieux L.

Bear Lake

Leroy Bay

Pearl Beach

Dubgood Lake

Ontario

Victoria

Misema Lake

Crystal Lake

Mousseau

Mowmara

Northlands Pk.

Larder Lake Pk.

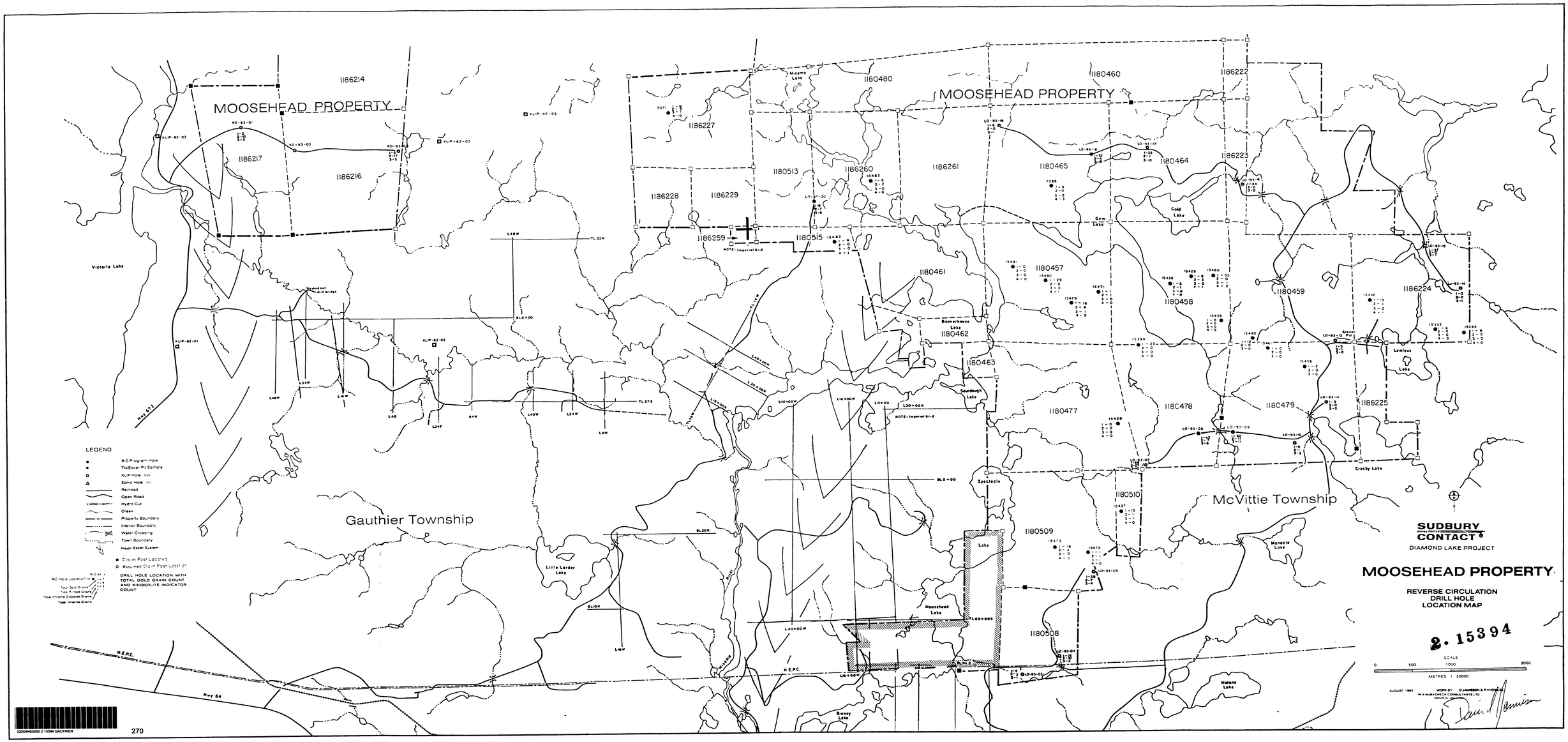
Victoria Lake Pk.

Dam

Town of Larder Lake

32D04NE0050 2 15394 GAUTHIER

260



32D04NE0050 2 15394 GAUTHIER

270