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CAVENDISH VERMICULITE PROJECT Southeastern Ontario

John Charles Archibald, B.Sc.Geologist December 31, 1992.

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Cavendish Vermiquiste Project QPAP File Number 0P92-236

introduction

The purpose of this program was to evaluate the extent and potential of the vermiculite mineralization located in the southern portion of Cavenaish Township, in the Eastern Onterio Mining Lieutrica.

Previous work in the area had nutitined several high grade vermiculité occurrences some 2.4 kilometers to the east uniortunately their proximity to cottages coreated a conflict and the program was shelved temporamly.

The work performed in this program consisted at geodinated surveys which included Grone V.E. Electromagnetic and triation magneticmeter burveys, cutting chaining and flagging of thes, geological mapping and geodinamical sampling of the weathered bedrock nucleums. The surveys and sampling was done during the summer and fall derived of 1992. Sample existration and studies were completed between November 1 and Dec. 31, 1992.

Some 15.9 kilometers of line wes cut and theorem ourne, the program a total of him kilometers of magnetometer and out a electromagnetics was run, with a spacing of low meters between lines and intervals of 25 meters between stations on the lines. A total of 22 dividenters of geological mapping was run during this program.

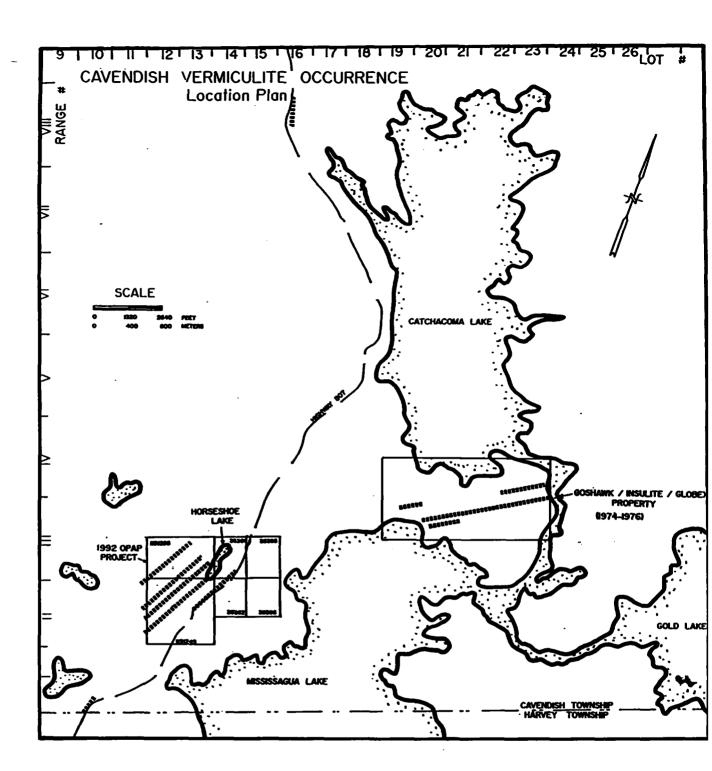
A total of some 336 samples were collected during the geochemical sampling program ten of which have come from adjacent areas to the north, east, and south of the main survey area A majority of the samples have come from a marble-dolomite metasecomemory unit

Approximately 116 of these samples have indicated vermiculite values of which 35 have significant values.

The second phase of this project involves the evaluation of approximately 92 of these samples by a laboratory for percentage of vermiculite and for the size and density of the vermiculite

Two other individuals, Cim Archibeld (mining engineer) and E.T. Archibeld (geologist) (OPAP grants OP92-255 and OP92-254 - respectfully) worked on this same project. Grant OP92-255 consisted of overburden drilling underneath areas that indicated significant vermiculity mineralization to see if values extended in depth and to carry out assaying through an independent laboratory. Grant OP92-254 covered the portion of the program that included the geophysics: surveys some geological mapping and sampling whereas my portion covered reconnecsance prospecting, mapping sampling and reconnecsance sample analysis for vermiculity.

A total of 62 days were spent on field work and to days on sample preparation and analysis, one day on data research, and 5 days on report preparation. A total of \$3397.22 was spent on project expenditures for Grant GP92-236. A total of \$11,897.22 was spent on this project by J.C. Archibald in time and expenditures as outlined by the GPAP Program requirements.



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Froperty

The original property consisted of three patented claims numbered 35355-35356, and 35362. The original discovery of vermiculite was located on the north-west section of claim 35362. Consequently, if was found that this original discovery was along the eastern contact of a dolomite/marble unit which contained several persive cones of vermiculite-bearing material, and subsequently claims E01191249 and E01191295 where occurs on to cover these areas. The original claims consisted of approximately 130 acres. Since vermiculite-bearing lenses continued off the property and Crown land, an additional 260 acres was staken own the main group. The surveys in this program cover an area of approximately 450 acres.

The original vermiculity discovery was made by Harvey Greene on Lots 19 to 23 in Concessions III and IV in the southeast section of Cavendish Township. This program managed to locate parallel vermiculity systems on Lots 12 to 14 in Concessions II and III devendish Township.

The property is incated some seven kilometers north on Highway #507 which runs between Bucknorn and Gooderham II is approximately 35 kilometers northwest of Peterborough, 45 kilometers northeast of Lindsay, and approximately 243 kilometers northeast of Toronto. The property is located approximately 12 kilometers north of the Cavendian Harvey Township time arong Highway * 500.

The property consists of gentry rolling terrain with mature pine, maple, and oak (4 to 12 inch diameter). Overburden cover is shallow and on everage is approximately 0.5 to 1.0 meters to bedrock in the swampy areas, depths of up to 10 meters of overburden were encountered consisting of mainly peaty material and poorly developed basel tills. It was hoped that some of these areas might yield larger volumes of weethered vermiculity that infilled low depressions ouring the last glacial period.

History

In 1950, Harvey Greene acquired chaims in the area where the work program was run ivermiculite was first located on Eq. 14-Concession II, on Eq. 23-Concession IV, on Eq. 25-Concession IV, and on Eq. 22-Concession IV.

in 1973, Globex Plinerals inc prospected and orilled the area immediately to the east of the claims. This program consisted of a limited amount of diamond and evour grilling.

in 1975 and 1976, under the supervision of the Ciw.Archibaid, Gosnewk titines the certied out an exploration program consisting of the cultury some sampling augments, chambers of the months and 5460 meters of dismond drilling and 5460 meters of backnow transming was completed during this program (vermiculity was located over a strike length of some 1757 meters to depths of up to filleen feet.

A total of three vermitalite zones were outlined by these previous programs. The zones everaged 122 meters to 274 meters in which and 163 meters to 823 meters in length. Some 93,3000 cubic yards of vermiculite (of over 5% vermiculite by volume), was located in an area of 366 meters by 152 meters. (We the chose proximity to colleges, the program was temporarily shelves.)

Geology

The area is underlain by carbonate-rich metasediments of marble and dispoide (Grenville), amphibole-rich metasediments, syenite and syenite gneiss, and quartz monzonite. These units are all cut by pegmatite and syenite dykes. The metasediments are formed from metamorphosed limestone. Bands of altered biotite or amphibole-rich material can be seen within areas of intenset shearing as an alteration product of metamorphism.

The vermiculite is mainly found within the weathered-silicified marble and dolomite bedrock, particularily in the areas bordering silaliow swamps. Some pseudo-vermiculite can be seen within the amonibolite-rich shears, caused in part by hydrothermal alteration. A majority of the vermiculite horizons are located within the marbles around the edges of the Anstruther granite batholith. A thin band of amphibolite is found between the Grenville marbles and the Anstruther batholith bands of brotite-rich amphibolite and granite are found to cut the metasedimentary marbles along shear contacts which now appear as schistose material.

The modal makeup of the vermiculite is as follows:

40.0-42.4% Si02

23.6-29 3% Mo0

9.6~12.2% A1203

5.1-6.7% Fe0

0.7~1.1% T102/Ca0/K20

The phiogopite, tremolite, and biotite hydrothermally after to vermiculite, talc, and serpentinite. The vermiculite forms at higher temperatures and different Ph than the other minerals. Vermiculite is essentially a hydrated aluminum and magnesium rich mineral.

in this area the vermiculite is beige (phlogopite-biotite origin) and green (tremplite-serpentinite origin) and found mainly in sheet-like lenses. The latter is a higher-grade material There are minor amounts of red colored vermiculite flakes, due to alteration of actinolite. The Mg content is caused by dissolution of dolomite from the calc-silicate rocks.

On the Goshawk/Insulite property to the east of the survey area , the vermiculite bands strike at North 70 degrees East, and dip 20 to 60 degrees to the south.

Geological Survey

The geological survey was run during the summer and fall of 1992.

There was a one-week period in November when there was up to seven centimeters of snow cover but this did not effect the survey as the ground conditions were not trozen and outcrops were still visible.

A total of 22.8 kilometers was traversed during the survey, along flagged lines and claim lines. Although this was a reconnaissance program attempting to locate vermiculite bearing material within the marble and dolomite units, differentiation between biotite rich amphibolites and amphibole—rich amphibolites was not made.

A metasedimentary complex of marble and dolomite was located on the property. This unit is approximately 750 meters in width and at least 1200 meters in length, continuing our the property onto crown land in the southwest. Where the metasedimentary unit continues off the property, it appears to narrow but still averages approximately 350 meters in width. To the north, roughly through the mid-section of Horeshoe Lake, the metasedimentary unit is terminated by both amphibolite and syenite units. This same metasedimentary unit appears to outcrop approximately 0.9 kilometers to the south of the property and also 3.2 kilometers to the north of the property.

It appears that the Goshawk Mines Ltd. vermiculite deposit is not connected to the zones outlined during this survey. The new zones occur on the north-west flank of a fold, and the Goshawk deposits occur on the ridge of the same fold; both are separated by biotite-amphibole-syenite amphibolite units. The Goshawk marble-dolomite metasedimentary units extend as far as the east boundary of claim 35355.

Vermiculite mineralization is found all around the contact area of the metasedimentary unit and within amphibolite-rich shears which are trending from the metasediments and within the sedimentary unit itself.

Along the edges of the metasedimentary unit, the vermiculite bearing zones appear to be confined within lenses. These lenses dip from 45 degrees to 80 degrees, the latter being the prevalent dip to the southwest. The vermiculite mineralization in the central portion of this metasedimentary unit appears to be wider and has greater potential for depth.

The metasedimentary unit is terminated north of Line 6 South (west side of Horseshoe Lake), and appears to pinch south of Line 17 South (southwest of claim 1191249). However, extensions of this zone can be found along Highway #507 a few kilometers south and north of the claim group.

Geochemical-Soil Testing Program

Approximately 338 samples were taken during this phase of the program of which ten were taken in areas adjacent to the main section of the survey grid.

The samples were taken for the most part from the soil horizon immediately above the bedrock. Extra care was taken to try and obtain chips of the bedrock. Dolomite/marble units appeared for the most part to be weathered to semi-weathered. The amphibalite units, with exception of the sheared units, appeared to be more massive and less resistant to weathering processes.

On average the samples were taken at 0.5 to 10 meters in depth. The southern and extreme northern sections of the property were overlain by shellow overburden. The areas surrounding Horseshoe Lake and to the southwest of Horseshoe Lake were overlain by deeper overburden averaging 10 to 30 meters in depth. Drilling by C.W. Archibald (OPAP Grant # 0P92-265) indicated that depths of up to 100 meters of overburden are found in some of the swamps surrounding Horseshoe Lake. The drilling program was run over areas which indicated high surface values and areas of possible high tonnage situations.

it was found by initial prospecting that the main vermiculite values coincide with the martie/amonate metaseoimentary units, and within sneared amphibolite/amphibolite gneiss units which are in close contact with the metasedimentary units. For this reason a majority of the samples were taken from the marble/dolomite units.

Samples were taken every 25 meters on lines spaced at 100 meters apart.

These samples were evaluated visually by using a propose torch to exfoliate a partial of the samples. Samples were first pulverized before exfoliating to allow for greater surface area and better exfoliation of the micaceous booklets. The samples were divided into three catagories:

- A) no visual vermiculite exfoliation
- B) visual indication of vermiculite under 10% volume (V or *).
- C) visual indication of vermiculite over 10% volume (VG or **or***)

 Samples which indicated vermiculite were used in a qualitative determination program to determine:
 - A) exact percentage of vermiculite
 - 6) size distribution of vermiculite
 - c) weight of vermiculite (pounds per cubic foot determination).

The initial phase of logging and visual determination took between 0.5 and 1.5 hours per sample on average. The detailed analyses of size distribution and weight determination, including sample drying, averaged 6.6 hours per sample. The samples were dried in a convection oven at temperatures of under 100 degrees F. Low temperatures are needed as higher temperatures will change the extoliation potential of the vermiculite mineral. The samples are then pulverized and weighed before extoriation. After extoliating each sample, the vermiculite is weighed. The samples are then screened using: +4, +4 to -8, +8 to -14, +14 to -28, -28 screen fractions. Each fraction is weighed and then pound per cubic foot determinations are made.

Results of Program

Some 338 geochemical/soil samples were taken during the program. Most of these were obtained within the marble/diopside units and the remainder within amphibolite-rich shear zones. Of the samples taken, 135 (40%) contained vermiculite Approximately thirty-five of the samples or 34.9% of the vermiculite-bearing samples have visually indicated values of over ten percent vermiculite by volume (upon exfoliation).

Ninety two samples have been analyzed for quantitative analyses and size distribution/density analyses

industrial Use for Vermiculite

Vermiculite is primarily used in gypsum plaster, insulation, and replacing sand in concrete. It is desirable due to its low density, high heat

resistance, low thermal conductivity, light weight, inert chemical properties, and acoustic (sound-proofing) qualities. It is also cheaper to transport in bulk as a raw product before exfoliation and have it expand to its final product once it reaches its proper market.

Other vermiculite deposits located in Canada are in the Sudbury and Perth areas. Due to the high asbestos/talc contents, these deposits are not in demand. There are only four other producers of vermiculite in the world which include, Libby (Montana), Palabora (South Africa), Enoree (South Carolina), and Santa Luzia (Brazil). The first three are high grade (-90% vermiculite) but within narrow lenses and pods. The last is not in high demand due to a high biotite content.

Vermiculite is generally graded into six catagories: No.1 is coarser than +4 mesh (density of 7 pounds per cubic foot), No.2 is between -4 and +14 mesh (density of 6 pounds per cubic foot), No.3 is between -14 to +28 mesh (5 pounds per cubic foot), and No.4 to No.6 is between -28 and +48 mesh (4 pounds per cubic foot). No.1 is used for loose fill and agricultural purposes, No.2 is used for refrigerator insulation or asphalt impregnation or plaster/concrete aggregate, No.3 is used for agricultural growing or plaster/concrete aggregate, and Nos.4-6 is used for fillers, insecticides, carriers, paint extenders and home insulation. Vermiculite competes with gypsum, perlite, foamed siag, clay, and sand as an industrial mineral. It has a higher K factor and is lighter than the other materials, although it has less compressive strength.

Our concern with this particular occurence is its potential for uses in the environmental field as a capping or liner material for waste and landfill sites and as an absorbant material for toxic spills if the qualities of this particular deposit are amenable to this purpose

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Of the 55% samples taken during the surface genomerocalisampling uniques. 92 of the samples returned vermiculity whiles Of the samples which returned vermiculity and the samples which contained significant values. Significant values are determined as mose which are over ten percent vermiculity by various.

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enoment y- no to be gay necession to the 1-2-10% energies enoment y- no to 10-20, necession to 10-10% energies enoment y- no to 10-20, necession to 10-10% energies enoment y- no to 10-20, necession to 10-10% energies enoment y- no to 10-20, necession to 10-10% energies

Samples were also analyzed trum the insulterShahamk property to the east of the survey area and from the roadcut come (2 kilometers to the south of the survey area These refurned (4.16% and (4.47% vermiculite rerapertuely

enginesminimus) and the same state of the same of the important grees.

a majority of the hermiculture contained within the -26 to +4d meet eight fraction (grades 4 to 5), but there is cultificient material also in the -14 to +20 (grade 3) meet eight fraction

Approximately 42 percent of the samples within the -6 to +14 mesh fraction contain material with a density of 3 to 7 counds per cubic foot, and approximately 25 percent of the samples within the -14 to +26 mesh fractions contain material with the same density Only 169 percent of the samples containing vermiculite contained material coarser than +6 mesh size

Visual indications during the field studies indicated that Anomaly E and Anomaly E contained coarser vermiculite material with lower densities

The method of extination of vermiculite using propage torches is sufficient for field studies but it has been found that without proper temperatures at specific time intervals vermiculity will not expand to its follows potential. It is therefore estimated that the vermiculity under ideal conditions will occupy more of the coarser mean intervals, and that the densities will be lower than what this study has indicated An oven with 1350 to 1700 degrees F should be used for future extiliation of materials

Conclusions

This phase of the exploration program has expanded the previously known areas of vermiculite-bearing material which were first located on patented claim E035362. Prospecting, geological mapping, geochemical/soil sampling, VLF-Electromagnetic and magnetometer surveys were all useful tools in outlining these vermiculite deposits. Vermiculite has been found to be associated within defined geological units (metamorphosed limestone), and it has been found that the magnetometer survey is useful in delineating between the iron-rich amphibolites and the iron-poor marble/limestone units.

A total of five vermiculite-bearing zones in total were outlined, encompassing a surface area of over 450 square meters

it appears that these zones, all of which he within a marble (metamorphosed limestone/dolomite) unit, trend in a northeasterly direction (N 20 degrees E). These zones are truncated in the middle section of Horseshoe Lake (at Line 6 South), but appear to continue off the property and survey grid to the southwest.

The vermiculite-bearing zones are located either at the contact or in the central portions of the marble complex. At the contact edges the vermiculite material appears to be relatively shallow and unweathered at depth but in the central areas appears to be wider and weathered to greater depths.

It is possible that the material in the central sections of the marble complex is possibly an accumulation of weathered material within a "bowl" or trough; and for this reason there is potential for a large-tornage situation in this area. Although Anomaly E , in the northwest section of claim EO 35362, has some of the highest vermiculity percentages per volume of material, it is thought that Anomalies C and B respectively have the greatest potential for both grade and volume

A total of ninety two samples returned significant vermiculite assays. Approximately forty-five percent of the vermiculite-bearing samples contained over ten percent vermiculite by volume and these high-grade samples covered an area of approximately 600 meters square (800 meters east-west and 400 meters north-south). This area is located to the south and southwest of Horseshoe Lake.

It is possible that there is one large area of accumulation in some areas where some of the anomalous zones are one of the same it is also thought that some of these anomalous zones are close enough to each other to be mined as one deposit in the future.

There is sufficient quantities of vermiculite within the -8 to +28 mesh fractions, (the majority in the -14 to +26 mesh range), with a density of 3 to 7 pounds per cubic foot. The exfoliated vermiculite coincides with the industrial catagories of #3 grade to #6 grade. The size and grades outlined by lab analyses indicate that this material is useful as plaster/concrete aggregate, fillers, and paint extenders. With a proper method of exfoliation (using an ideal exfoliation temperature of 1350 to 1650 degrees F. over a specific time period), it is thought that there is sufficient material in the higher-grade/ coarser size fractions which would be useful for insulation purposes. There expeared to be charser material associated with Anomalies B, u, and E.

It visually appears that the vermiculite in this deposit is relatively free of talc, serpentinite, and other gangue minerals it also appears that this vermiculite is anhydrous or of the non-absorbing type; thus it would be more useful as an insulating material rather than for planting/agricultural products or as an environmental adsorber. It is too soon to determine from this first phase study whether this material may be condusive to uses in the environmental field.

Recommendations

The next phase should be to evaluate the area and depth of the higher grade mineralization, to outline the tonnage and grade potential. There is a surface area of approximately 400 meters by 800 meters (between Lines 7 south and 11 south on the south and southwest side of Horseshoe Lake) which should be tested to see if this is in effect a large bowl-type accumulation of residual material. At the same time a backhoe should be used to bulk-test and sample at depth (to approximately 4.5 to 5.5 meters depth) on each of the anomalies where high values were indicated. One fence per anomaly would total approximately 500 to 600 meters of trenching. These trenches could be logged, sampled, and backfilled in approximately 40-50 hours of backhoe time.

This vermiculite deposit, contained within a marble complex, appears to terminate to the north but extends to the southwest. The extent of this deposit is unknown and continues to the southwest into an area overlain by crown-land. As the highgrade values continue into this area, it should be geologically mapped and sampled to see the extent of this zone. A magnetometer survey would be useful in outlining geological contacts under swamp or heavu-overburden areas.

Vermiculite mineralization has been located in several other locations off the property such as on the Harvey-Cavendish Township line some 0.8 kilometers to the south, on the Insulite/Goshawk property some 2.4 kilometers to the east, and in a roadcut on Highway #507 in line of strike and some 4.4 kilometers to the northeast. It is possible that all of these areas are geologically related.

Although the merble complex is truncated to the north, it is possible it squeezes and bulges, with the possibility that there are a series of other truncated merble complexes extending further north. There is also a large area of open Crown land underlain by metamorphosed limestone or merble some 3.6 to 4.4 kilometers to the north of the present survey area which should be investigated during the next program phase, at the same time the detailed survey and bulk-sampling programs are being runover this property. The next phase could be carried out during the summer and fall months of 1993 when the ground conditions and exposures are ideal. Part of this work program would include some further in-depth study of the properties of the higher quality vermiculite material to see if it has the chemical properties for uses in the environmental field.

December 31, 1992.

Toronto, Unterio.

J.C.Archibald, B.Sc.Geologist.

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-LEGEND. ---- X no vermiculle volue

Sample Analysis -

Sample Nos./Location Wet Wt.(gm :		ेन्यु Wt.(gm.)	Exfol Wt.(gm.) Verm Content
J003	26.5	26.4	x
J004	19.8		*
J007	20.0	20.0	x
J0013	11.9		*
J0017	13.2		*
J0018	19.9	19.9	X
J0019	25.9	25.9	*
J0023	16.5		*
J0030	19.4	19.4	X
J0031	19.7	19.7	X
J0034	19.5	19.5	X
J0036	18.6		*
J0039	15.3		*
J0050	21.6	21.6	X
L5S - 0+50W	21.4		*
L6S + 0+50W	105.2	105.2	X
L65 - 6+50W	24.5	24.5	x
L6S - 8+25W	15.6		*
L6S - 8+50W	14.8	14.8	x
L6S - 7+75W	17.9		*
L6S - 9+25W	19.8		*
L7S - 0+25W	43.1	43.1	x
L75 - 1+00W	71.1		*
L7S - 1+50W	36.5	365	X

L8S - 0+75\	49.1	49.1	X
L8S - 1+00W	35.7	35.7	X
L8S - 1+25W	84.2	84.2	X
L8S - 1+50W	20.9		*
L8S - 2+50W	56.2	56.2	X
L8S - 9+00W	15.9		*
L95 - 4+00W	34.6	34.6	x
L9S - 5+25\	17.6		*
L9S - 5+50W	61.8		*
L9S - 5+75W	21.7		*
L95 - 6+00W	23.2		*
L9S - 6+25W	21.4		*
L9S - 8+50W.	13.7		*
L9S - 8+75\	17.6		*
L9S -			
L10S - 2+25W			*
L10S - 5+00W	79.3	79.3	x
L105 - 6+25W	66.3	66.3	x
L10S - 3+75W	157.6	157.6	x
L11S - 3+00W	73.1	73.1	x
L11S - 3+25W	85.1	85.1	x
L115 - 3+50W	97.3	97.3	x .

L125 - 1+50W	194		
L125 - 3+25W	118.6	118.6	. X
L125 - 5+00W	243.7	243.7	X
L125 - 3+50W	29.5	29.5	x
L125 - 4+75W	38.1	38.1	X
L125 - 6+00W	108.8	108.8	X
L125 - 7+75W	46.0	46.0	X
·			
L135 - 1+75W	33.4	33.4	X
L13S - 2+75W	40.3		
L135 - 4+25W	34.6	34.6	X
L135 - 4+75W	25.4	25.4	X
L13S - 5+25W	67.9	67.9	X
L13S - 7+00W	52.5	52.5	X
L135 - 7+50W			
L13S - 7+75W	1.2	1.2	X

Sample Analysis -

Sample Location	wet Wt.(gms)	Dry Wt.(gms.)	Exfol. Wt.(gms.)	% Verm.
BL - 4+75 W				x
L1+50S - 5+25 W				X
BL - 600 W				X
L0+50N -1+75W				×
L1+11N - 2+75E				×
L1+00N - 5+50W				X
L0+50N 4+50W				X
L0+50S - 6+00W				X
L0+50N - TL				x
L1+00N - 1+50W				X
L1+00N - 1+50E				X
L1+00N - 5+75W				×
L0+50N - 5+00W				X
L0+00 - 0+25W				X
L0+50S - 2+00W				x
L0+50N - 1+50E				×
L1+00S - 0+25W				×
L2+50S - 4+75W				^ X
L4+00S - 4+75W				^
L2+50S - 5+25\			. •	
L4+50S - 6+00W			,	(
L0+00 - 0+75\			_	×
L1+00N - 4+25W			•	x X
L3+50S - 5+25\				
L0+50N - 0+75E				X
				_

Sample Location Wet Wt.(Gms) Erg. ~t.(gms) Exfol. Wt.(gms) %Verm.

L1+00N - 1+00W	×
L0+50N - 0+75W	X
L4+005 - 6+00\	X
L4+00S - 5+50W	X
L1+005 - 4+00W	X
L4+50s - 5+75W	X
BL - 3+25E	×
BI - 3+00W	×
L4+50S -7+00W	x
L4+00S - 4+50W	×
L4+00S - 6+25₩	×
BL - 5+75W	×
L0+50S - 1+75\	×
L1+00N - 3+00E	x
BL - 5+00W	
L4+50S - 5+50\	X
L4+50S - 6+25W	×
L0+00 - 3+50W	X
L4+00S ~ 5+25\	
L0+50S - 4+75W	X
L4+50S - 7+25W	X
L1+00S - 1+00W	x
L1+50S - 2+75W	*
L4+00S - 5+75W	×
L1+00N - 4+50W	. *
L1+50S - 5+75W	×

Sample Location Wet Wt.(gms) Dry Wt.(gms) Exfol. Wt.(gms % Verm.

BL - 3+00W	X
L3+50S - 6+00W	X
L1+50S - 3+00W	X
L2+505 - 3+50W	X
L0+50S - 5+00W	X
L4+005 - 6+50W	×
L4+005 - 4+ 55 W	×
BL - 1+50W	x
L1+00S - 4+50W	×
BL - 1+95W	×
L0+50N - 1+25 W	x
	x
L3+005 - 6+00W	_
L0+50N - 4+25W	X
L0+50N - 0+50W	X
B1 ~ ♦+75 ₩	x
BL - 0+25W	×
L0+50N - 1+50W	×
L1+00N - 1+75W	x
L0+50N - 5+50W	•
L0+50N - 0+50E	X X
L3+00S - 3+75W	X
BL - 1 +50₩	X
L1+00N - 0+50W	X
TL - 1+00N	
L1+00N - 1+75E	X X
ETYVOR TYPUL	^

Eample Location Wet Wt.(gms) Dry Wt.(gms) Exfol. Wt.(gms) % Verm.

_0+00 - 4+50W	×
LO+50N - 4+75W	x
:1+00N - 0+25W	X
LO+50N - 1+75E	×
L4+50S - 4+75₩	×
1+00S - 4+75₩	×
±0+00 - 3+75₩	×
±0+50S - 4+50W	×
10+00 - 4+ 35 W	X.
10+00 - 4+00W	ኢ
EL -1+00W	X
EL - 5+50W	X
1+00N - 2+25W	*
£1+00N - 5+00W	*
11+00N - 2+50E	X
_1+00N - 4+75W	X
£1+00N - 1+25W	X
_1+00N - 2+00W	X
10+50N - 1+00E	X
1+00N - 0+75W	×
10+50N - 0+25E	X
10+50N - 2+50W	x
L2+00S - 5+00W	×
-1+00N - 2+25E	×
_1+00N - 5+50W	×

Sample Location | wet wt.(gms) Dry Wt.(gms) | Exfol. Wt.(gms) | %Verm.

L1+00N - 3+75W	x
L4+005 - 5+00W	×
L0+00 - 5+ 25 W	×
L4+50S - 6+50W	x
L1+00N - 4+00W	×
L0+00 - 2+25W	
L2+005 - 4+00W	X
L0+50N - 5+25W	×
L4+50S - 6+75W	×
L1+50S - 3+75W	×

X

Sample Location : Description

L4+50S-6+00:Litevellow/buff,sandysilt,dry,loose,oddroot+frag,poor flakes L0+00-0+75W:buff/mid bn., matted, moist,homogeneous,lot flakes,no frags L1+00N-4+25W: dk.bm.color, loose, sandy, lot frags, poor flakes L3+50S-5+25W: moist, matted, dk.bn.to buff, lot frags+silver flakes L0+50N-0+75E:moist, matted,dk.bn./buff, odd frag., few roots, lot flakes L1+00N-1+00W: moist/matted,buff brown,odd frag.,lot silver flakes,roots L0+50N-0+75W: dk.bn., matted, moist, few roots, small flakes, no frags. L4+00S-6+00W dry, fine buff/yellow sandy soil, lot frags, poor flakes L4+00S-5+50W: dry, fine sandy soil, dk.brown,lot frags, poor flakes L1+00S-4+00W: dry, buff/dk.brn. sandy soil, lot frags, poor flakes L4+50S-5+75W: dry, red.bn. sandy soil, lot frags/flakes - 3+25E: dk.brown, granular marble, dry, roots, poor flakes (Bedrock) L4+50S-7+00W:fine grey, sandy/granular, lot frags, dry, no roots or flakes L4+00S-4+50W:lite buff bn., moist/matted, lot flakes, no frags. or roots L4+00S-6+25W: fine, grey sandy, lot frags, lot roots, no flakes, dry BL -5+75W:lite buff bn.,moist/matted, lot flakes, no frags.,homogeneous L1+00N-3+00E:dk.red/bn.,sandy,dry,loose/granular soil,lot frags.,no flakes BL -5+00W: dk.red/bn., sandy, dry, loose, lot frags., no flakes

Sample Location : Description

L4+50S-5+50W; mid.buff bn., dry, loose, sandy soil, lot frags., no flakes L4+50S-6+25W:mid bn./buff color,dry,loose,sandy soil,lot frags.,no flakes L0+00-3+50W: mid.buff bn., dry, loose, sandy soil, lot frags., no flakes L4+00S-5+25W: mid.bn/buff color, dry, loose, sandy,lot frags.,no flakes L0+50S-4+75W:grey/bn,matted-clay (marl),wet,no frags/roots,lot flakes L4+50S-7+25W: moist/matted(marl), wet, lot flakes, some frags., no roots L1+00S-1+00W:red/bn.,loose, dry, sandy with frags., no flakes L1+50S-2+75W: wet,grey/blk.marl,lot frags,silver Ige.flakes (on bedrock) L4+00S-5+75W:fine, loose, dry, mid brn.sandy soil, odd flake, no frags. L1+00N-4+50W: dk.red/bn.loamy soil, lot frags., poor flakes, dry L1+50S-5+75W:Lite grn./brn.micaceous, loose, wet/matted, small flakes BL -3+00W: lite green/bn..micaceous.lot frags/flakes(bedrock) L3+50S-6+00W: very wet,qn./bn., lot mica flakes + frags., loose, matted L1+50S-3+00W:wet, lite buff color, sandy alt.marble?, no flakes, L2+50S-3+50W: wet, dk.gm./blk, micaceous, sandy, fine flakes L0+50S-5+00W: wet, lite gm./bn., lot flakes, loose, matted, no frags. L4+00S-6+50W: moist, gm./bn. micaceous.lot larger flakes, lot frags. L4+00S-4+50W: wet grn./buff, Ige. flakes, lot roots, matted, odd frag.

Sample Location : Description

BL -1+50W: moist, red/bn., sandy fine soil ,fine flakes, lot mica

L1+00S-4+50W: wet, dk.bn./blk.with lot silver flakes, odd frag.

BL - 1+25W: moist, red/bn.sandy loam, matted, odd flake

L0+50N-1+25E: moist, red/bn.sandy loamy soil, lot flakes, odd frag.

L3+00S-6+00W: very wet, dk.bn./blk.laom, lot silver flakes, lot frags.

L0+50N-4+25W:moist, red/bn.sandy loam lot silver/green flakes, no frags.

L0+50N-0+50W: dryer, red/bn.sandy, lot silver flakes, odd frag.

BL - 0+75W: moist, matted, w. roots, Ige. silver flakes in bn. sandy loam

BL -0+25W: moist, matted sandy soil, w. roots, lge.silver flakes, lot frags.

L0+50N-1+50W: moist, red/bn.sandy soil, lot flakes, loose, no frags.

L1+00N-1+75W:moist lite buff/ bn. sandy soil, loose, lot flakes, roots

L0+50N-5+50W:dry,loose,bn/blk.sandy soil,lot roots,silver flakes,no frags.

L0+50N-0+50E: loose,moist,med.bn.sandy,lot silver flakes+roots,no frags.

L3+00S-3+75W: wet, loose, dk.bn.sandy, lot silver flakes, no frags.

BL - 0+50W: moist,lite buff/bn.,matted silts,lot silver flakes,no frags.

L1+00W-0+50W: lite red/bn.sandy loam, no frags.,lot silver flakes(med)

TL - 1+00N: moist, grey clay/loamy marl, lot frags, poor flakes

Sample Location : Description

L1+00N-1+75E: moist, mid.bn.sandy soil, lot roots/silver flakes/odd frag.

L0+00-4+50W: wet, matted, mid.-dk.bn.sandy, large flakes

L0+50N-4+75W: dryer, loose dk.bn.sandy soil, less silver flakes, no frags.

L1+00N-0+25W: moist, med.bn., loose sandy soil, lot roots, poor flakes, no frags.

L0+50N-1+75E: dry loose granular marble, poorly flaked, lot roots,no frags

L4+50S-4+75W: moist/matted, mid bn., sandy, lot flakes/roots, no frags.

L1+00S-4+75W: wet,lite grey/bn.sandy, lot silver flakes, no frags

L0+00-3+75W :wet, dk.bn/blk.organics over med/grey marl, odd flake

L0+50S-4+50W: wet, dk.bn.organics over grey marl, larger flakes

L0+00 - 4+75W: wet, grey/buff bn. sandy soil, no frags, lot med.flakes

L0+00 - 4+00W: wet, grey/buff sandy soil, no frags, lot med. flakes

BL - 1+00W: moist, red/bn.sandy loam, lot flakes, no frags.

BL - 5+50W: moist, dk.bn.sandy loam, poorly flaked, no frags.

L1+00N-2+25W: wet,dk.bn./blk. sandy loam, lot lge. silver flakes, no frags.

L1+00N-5+00W: moist,loose,red/bn.sandy loam,few flakes,homogeneous

L1+00N-2+50W:dry, dk.bn.laomy soil, lot frags + silver flakes

L1+00N-4+75W: dk.bn.loamy soil, loose, dry, lot roots, no frags.

L1+00N-1+25W: dry, lite red/bn., loose sandy soil, lot roots, poor flakes

Sample Location : Description

L1+00N-2+00W:wet,lite red/bn.buff sandy soil,lot frags/roots,some flakes L0+50N-1+00E:moist,lite red/bn.sandy soil, no frags,some flakes/roots L1+00N-0+75W: moist, lite red/bn.loamy soil, lot roots, flakes, no frags. L0+50N-0+25E: moist, lite red/bn.loamy soil, w.roots, flakes, no frags.

L0+50N-2+50W: moist, red/bn.laomy soil, lot roots, flakes, no frags.

L2+00S-5+00W: fine lite buff sand with frags, poorly flaked

L1+00N-2+25E: dry, dk.bn.loamy soil, lot roots, odd frag., poor flakes

L1+00S-5+50W: dry, red/bn.sandy soil, odd frag., few flakes

L1+00N-3+75W: moist, dk.bn.loamy soil,lot roots/frags., small flakes

L4+00S-5+00W:dry,mid.bn./buffcolor,matted marl, no frags/roots, flakes

L0+00-5+50W: dry, loose, red/bn.sandy soil, lot frags, no roots/flakes

L4+50S-6+50W: dry,loose,fine red/bn.sandy soil,lot roots/frags.,no flakes

L1+00N-4+00W: dry, loose, dk.bn/blk.soil, lot roots/frags/flakes

L0+00 -2+00W:dry,loose,red/bn.loamy soil,lot roots,no frags,poor flakes

L2+00S-4+00W: moist,lite buff sandy soil, lot roots, no frags, poor flake

L0+50N-5+25W: lite bn./buff sandy soil, lot roots, odd frag., poor flake

L4+50S-6+75W: dry, mid bn. sandy soil, lot roots/frags, some flakes

L1+50S-3+75W: dry, loose, red/bn.sandy soil,lot roots/frags, poor flakes

CKEIGHTUN KUCK DKILL LIMITED

1690 SISM

.JAD, MISSISSAUGA, ONTARIO L4W 1R4

TELEPHONE (416) 625-0941

FAX (416) 625-7459

INVOICE NO:

6220

CUSTOMER NO:

BC3

TO: John Archibald

100 Adeliade St.W.-Suite 702 Toronto, Ontario. M5H 1S3

G.S.T. #R101200418

11/2% per month service charge on overdue accounts.

0.0.1. #111012				ional service charge	on overdue accounts.
ADATE A	鑑選	SHIP	VALUE AND	MS VEHINS A	
12/10/	92 DIASE ORDER HE	Pick u	Origin Net 30 Da	VS	ER ORDER MINARER - 1/25 2 2 4
Rental			11/11/92 WC	4479	6
ORDERED :	SHIPPED	SBOK	DESCRIPTION	CONTREPLEE	EXTENDED PRICE
1	1	o	REN-MD RENTAL Pionjar drill/bkr sn 430699	800.00	800.00
1	1	o	RENTAL 104-0314 Narrow Chisel No Charge	0.00	0.00
			RENTAL PERIOD Nov. 11/92 to Dec.10/92		
			Rental Complete		
			·		
				· ·	
	1				
			Subtotal GST	1	800.00 56.00
Page	1		PST (8. Total	400 %)	64.00 920.00

This equipment remains the property of the Vendor until

INVOICE

PROGRAM EXPENDITURES - BREAKDOWN

EXPENSES:

Equipment Rental Drill + Samplers (1 mo.)	\$800.00 ~
Gas Expenses: Field, Travel, Drill	\$294.42 ~
Office/Stationary Supplies	.\$ 46.64
Xerox/Map copies	\$ 27.60 V
Field Supplies(flagging,tape,baggies.)	\$174.15
Subsistence/grocery/meals	\$1125.00
Vehicle Use: 4400 km. @\$.30/km.	.\$1320.00 🗸
Accomodations (Rental of cabin-1 mo)	.\$ 800.00 1
Special equipment: Exfoliation Furnace	\$ 475.00
Expenses Sub-Total	\$5,062.81

MAN DAYS :

Thus 50 days @\$100/day \$5,000.00
Total days worked 50 days
Report/Compilation 2 days
Sample Prep./Exfoliation/Analysis13 days
Field Days /Sample collection

TOTAL EXPENDITURES UNDER GRANT PROGRAM.....\$10,062.81

DAILY WORK LOG - J.C.ARCHIBALD

Dates	Field Days	Sample Prep	Office	Description
July 10	5 X			Travel + equip. set-up
July 1	7 X			Trail prepcut and flag lines
July 1	3 X			Line Prep - Cut, chain, flag
July 19	9 X			s. u n
July 2	0 X			и и
July 2	11 X		6 sites	-Sample w Pionjar 120 System
July 2	!2 X		8 Sites	- " " " "
July 2	:3 X		7 sites	- lost one hole " " "
July 2	!4 X		9 sites	- Pionjar 120 0 B. System
July 2	15 X		10 sites	- " " " " " " " " " " " " " " " " " " "
July 2	:6 X		5 sites	- Broke sampler/retrieved parts
July 2	?7 X		11 sites	- Pionjar 120 system
July	28 X		5 sites	- Sampling, demob.
			41	
Nov.	5 X		Mob., set-	up equipment, orientation of grid
Nov	7 X		-grid se	t-up-chain,flag lines
Nov.	3 X		- Line p	reparation-flag,cut,chain
Nov	9 X		- "	u 11 16 21
Nov 1	0 X		- 8 sites	s Pionjar 120 O.B System Sampling
Nov. 1	1 X		- 7 sites	s -repairs to equip.
Nov. 1	2 X		- 8 sites	s – Pionjar 120 system
Nov. 1	3 X		- 7 sites	3 - " " "
Nov. 1	4 X		- 8 sites	3 - " " "
Nov. 1	5 X		-10 site	S - " " "
Nov. 1	6 X	-	2 sites -	Equip.breakdown - broken sampler
Nov 1	7 X		- 8 sites	s – Pionjar 120 system

Dates worked Field Office Sample Prep. Description

Nov 18 X - 9 sites - Pionjar 120 system

SAMPLE DESCRIPTION - CAVENDISH VERMICULITE PROGRAM

Sample Location Description of Sample Contains Vermiculite ()



Ministry of

Northern Development

November 7, 1994

and Mines

Ministère du

Développement du Nord

et des Mines

Geoscience Approvals Office

933 Ramsey Lake Road

6th Floor

Sudbury, Ontario

P3E 6B5

Telephone:

(705) 670-5853

Fax:

(705) 670-5863

Our File: 2.15554

Transaction #: W9490.00058

Mining Recorder
Ministry of Northern Development
and Mines
MacDonald Block, Room M2-17
900 Bay Street
Toronto, Ontario
M7A 1C3

Dear Sir/Madam:

Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS

80.1191249 & 1191295 IN CAVENDISH TOWNSHIP

The deficiencies in the original submission have been rectified.

Assessment work credits have been approved as outlined on the report of work form for the submission. The credits have been approved under Section 13, Geochemical, Mining Act Regulations.

The approval date is November 1, 1994.

If you have any questions regarding this correspondence, please contact Lucille Jerome at (705) 670-5861.

ORIGINAL SIGNED BY:

Ron C. Gashinski

Senior Manager, Mining Lands Section Mining and Land Management Branch

Mines and Minerals Division

Ron Cookinh.

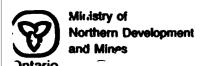
W/jl

Enclosures:

cc: Resident Geologist

Tweed, Ontario

Assessment Files Library Sudbury, Ontario



Report of Work Conducted After Recording Claim

Mining Act

Transact	ion Nun	nber			
W9490.00058					
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ersonal information collected on this form is obtained under the authority of the Mining nis collection should be directed to the Provincial Manager, Mining Lands, Migistry Sudbury, Ontario, P3E 6A5, telephòne (705) 670-7264.



nstructions: - Please type or print and submit in duplicate.

900

- Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining
- A separate copy of this form must be completed for each Work Group.
- Technical reports and maps must accompany this form in duplicate.

corded Holder(s) ALAN A. ARC	HIBALD			Client No. A51431
dress 74 Conley S	+ Thornhill	Ontario L4J	2×5	Telephone No. 905-6601554
ning Division		Township/Area		M or G Plan No.
Southern Ontario Cavendish				M 72
ork From: priormed	June 1982		To: Dece	mber 19 8 2
<u>-</u>	k One Work Group Or	nly)		
Work Group			Туре	
Geotechnical Survey	/			RECEIVED
Physical Work, Including Drilling	Till Sampl	ing / Drillin	g	SEP 0 \$ 1994
Rehabilitation	;			SEP 0 6.334
Other Authorized Work	SECTION	18 ONLY		MINING LANDS BHANCH
Assays				
Assignment from Reserve				
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	•									•			2	G	Cn Cn	5	्राष्ट्र	4	Work Report Number for Applying Reserve
Total Number of Claims	2		•	3 4													1191295	1191249	Claim Number (see Note 2)
																	2	4	Number of Claim Units
Total Value Work Done	10828																1083	9745	Value of Assessment Work Done on this Claim
Total Value Work Applied	O 82885													P 0∢	1994 198	1	0 2018	0 (11)	Value Applied to this
Total Assigned From	0 3555																	2556 0	Value Assigned from this Claim
Total Reserve	10,828													·			1083	2145	Reserve: Work to be Claimed at a Future Date
1. 2. 3.		Credits	are to sare to	be cut be cut	back s back s back s	tarting qually as prior	with th over ali ized on	e claim I claims the at	n listed s conta tached	last, w ined in appen	orking this re dix.	backwa port of	ards. work.		such de	etions	, pleas	e indica	ate from

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			• _	6)	Date			_	ı.i
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Ministry of Northern Development and Mines

Déve ament 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 W9490.00058

2.15554

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

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

1. Direct Costs/Coûts directs

Туре	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain	50 day	75990
Contractor's and Consultant's Fees	Туре		
Droits de l'entrepreneur et de l'expert- conseil			
Supplies Used Fournitures	office	46.64	
utilisées	xerox	27.60	
	field supply	174.15	
	exfol. furnace	475.00	723.39
Equipment Rental	Type drill	800	
Location de matériel			
			800
	Total Dir Total des coû	ect Costs	9023.3

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.

Туре	Description	Amount Montant	Totals Total global
Transportation Transport	Туре		
	RECEIVI	D	
	SEP 0 6 199	14	
	MINING LANDS BE	ANCH	
	gas	294.42	294.42
Food and Lodging Nourriture et hébergement	groc.& accom	.192.25	192.25
Mobilization and Demobilization Mobilisation et démobilisation	4400 X 30¢	1320	1320.00
	Sub Total of India Total partiel des coûts		1804.68
Amount Allowable (Montant admissible	not greater than 20% of Dir (n'excédent pas 20 % des c	ect Coets) coûts directs)	f §6 4≓€8
Total Value of Asse Total of Direct and / ndirect costs)	ssment Credit Valeur tota Mowable d'évaluatio (Total des cr	le du crédit	10828.0

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

- Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
- 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
× 0.50 ≖	

Remises pour dépôt

- Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
- 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'évalue	ition	Evaluation	totale demandée
	× 0,50 =		

Certification Verifying Statement of Costs

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.

:hat as	Holder		l am	authorized
	(Recorded Holder, Agent,	Position in Company)		

o 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 ti	itre de			je	suis	autorisé
	ulaire enregistré.	représentant.	poste occupé			

à faire cette attestation.

Signature		Date	
(2)	Suchlas	August 1	. 199
		- nagase I	

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

