

41P06NE2007

2.19580

NORTH WILLIAMS

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Report on Trenching Program

North Williams-Ireland Project

for

Mr. A. Lacarte

by

Walter Hanych

July, 1999

NORTH WILLIAMS PROPERTY - IRELAND PROJECT

INTRODUCTION

During the winter of 1998, Orogrande Resources undertook an exploration program on Mr. Archie Lacarte's North Williams gold-copper property, situated in the Shining Tree-Gowganda area of northeastern Ontario. At that time a program of line cutting, trenching, ground magnetometer and VLF surveying was completed. Since then, Mr. Lacarte has independently undertaken a follow up program of trenching.

LOCATION

The property is located 60 kilometers southwest of the village of Gowganda, Ontario in North Williams Township, on NTS sheet 41P06, NE. The UTM coordinate for the central portion of the property is 525395N and 496825E.

ACCESS

The property can be reached by driving westward along highway 560 for 35 kilometers from the village of Gowganda to the Bay Lumber road. Southward, along this road for a distance of 35 kilometers to the center of the grid.

An alternate route is from Shining Tree; a village located 50 kilometers west of Gowganda on highway 560. Westward from Shining Tree for 8 kilometers to the Sandy Lake road. Eastward, along this road for 18 kilometers to the intersection of the Bay Lumber road, then southward, for 11 kilometers to the center of the grid.

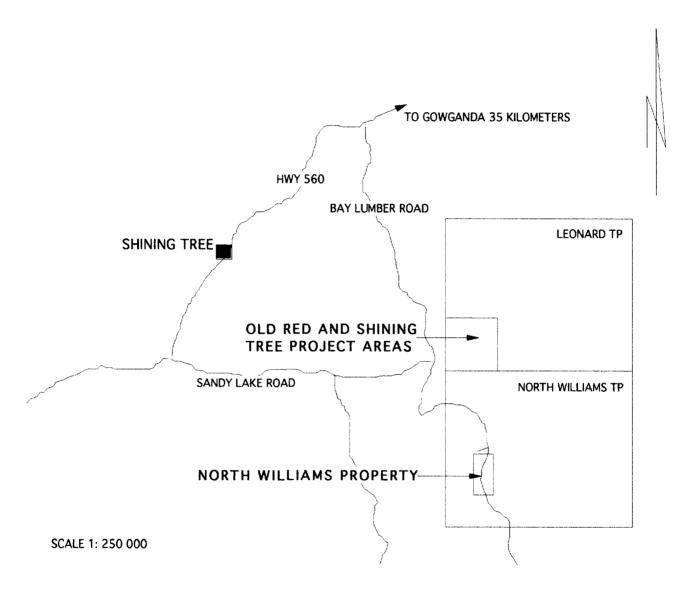
PROPERTY DESCRIPTION

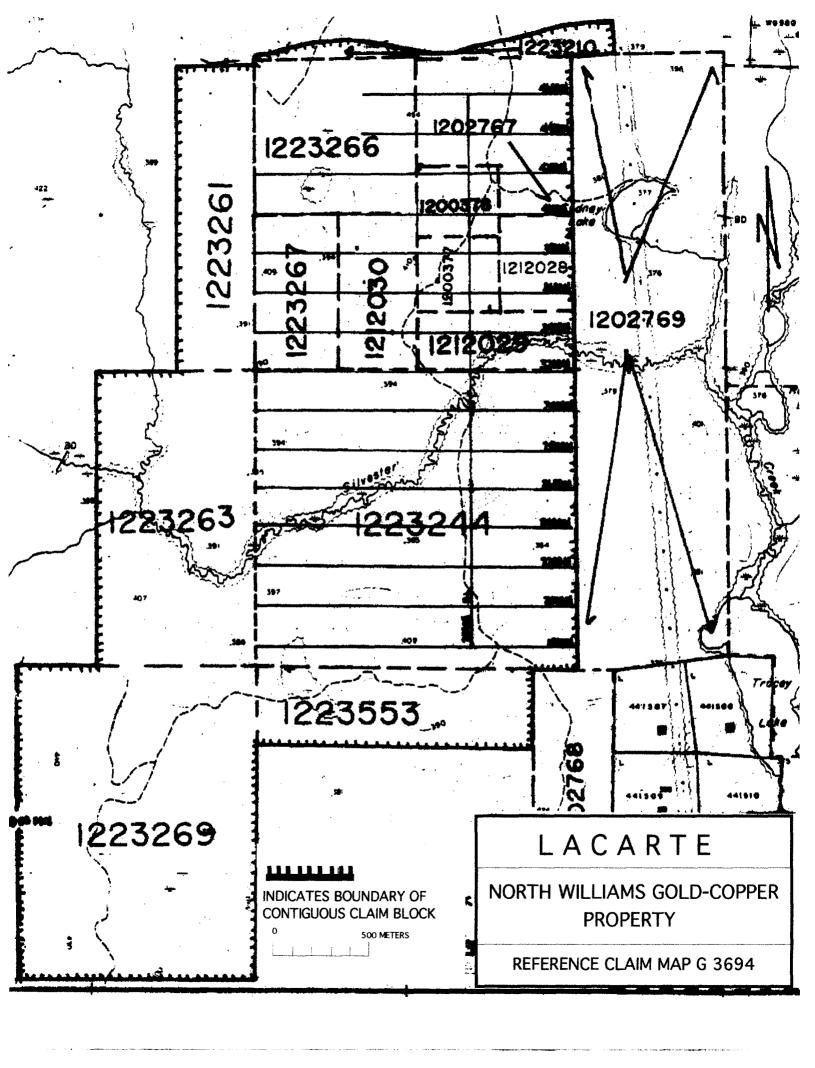
The property consists of 14 staked contiguous mining claims comprising 64 units in North Williams township and registered with the Larder Lake Mining Division on claim map G 3694. The claims are good standing withrespect to assessment.

Claim number	Configuration	Units
1223266	2x2	4
1202767	irregular claim	3
1200378	oversized claim 1x2	2
1223267	1x2	2
1212030	1x2	2
1200377	oversized claim 1x2	2
1212028	oversized claim	1
1212029	1 x2	2
Claim number	Configuration	Units
1223244	4x4	16
1223210	irregular claim	2
1223261	1x4	4
1223263	2x4	8
1223269	3x4	12
1223553	1x4	4
Total		64 units

HISTORY and PREVIOUS WORK

LOCATION MAP





Undoubtedly, North Williams Township received some prospecting activity circa 1916, subsequent to the silver discoveries in Cobalt and Gowganda, for in the 1920's Exploration Syndicate held 16 silver claims west of Tracey Lake. Prospecting was restricted to outcroppings of Nipissing Gabbro.

The area underlain by Huronian sediments did not receive much attention until the 1950's when it was explored for uranium. During the late 1950's the Lorrain formation of the Huronian supergroup was investigated for its potential in hosting paleoplacer gold.

In the early 1960's, during the construction of the hydro corridor from the dam site at Fraserdale on the Abitibi River to southern Ontario, hydro crews exposed a rusty area of Lorrain formation bedrock in the vicinity of what is now claim 1200377.

In 1973, Extender Minerals of Canada Limted staked a barite occurrence west of Tracey Lake. The company has been intermittently developing the deposit, which is currently accessed by a decline.

The Temagami Native land claim, initiated in the mid 1970's and finally resolved in the early 1990's inhibited and to large extent prohibited mineral exploration of the area during this period.

In 1983, subsequent to the reporting by the OGS of a gold occurrence in Huronian quartz pebble conglomerate, Golden Shield Resources undertook a regional mapping program that included the northern portion of North Williams Township.

In the early 1990's, Asquith Resources held and continues to hold ground in the immediate vicinity of the North Williams gold-copper occurrence. They undertook a limited program of IP surveying.

In 1994, Mr. A. Lacarte of Gowganda staked the area of the known gold-copper occurrence. In 1995, a shallow pit was blasted into the rusty exposure and J.C. Ireland resident geologist of Cobalt examined the pit. His findings and observations were published in OGS Open File Report 5943. The property was optioned to Falconbridge in 1996 and during that year they completed a magnetometer and IP survey over a cut grid. The property was also tested with six vertical diamond drill holes totaling 355 meters. Although, they reported interesting copper values, the gold mineralization was not considered to be a target that was suited to their exploration mandate and the option was forfeited.

REGIONAL GEOLOGICAL SETTING

The property is situated near the northwest margin of the Cobalt Embayment, a major accumulation of Paleoproterozoic aged Cobalt Group sediments dated at 2.2-2.4 Ga. that covers an area of approximately $10,000 \, \mathrm{km^2}$. The Cobalt Embayment is the down-dropped block of crustal material bounded by north and northwest striking normal faults. The resulting basin was subsequently filled by sediments and in North Williams Township, Upper Lorrain formation quartz arenite predominate.

North and northeast trending Nipissing gabbro dikes and sills intrude the area. These 2.2.Ga intrusions are of dominantly tholeittic composition exhibiting a geochemical signature characteristically typical of continental flood basalts.

ECONOMIC GEOLOGY

Disseminated nickel and PGE mineralization occurs in basal portions of the Nipissing Gabbro as a result of magmatic differentiation. Silver-sulpharsenide veins are spatially associated with the

Huronian-Archean unconformity where flat lying sills of Nipissing Gabbro occur in close proximity to steeply dipping Archean basement volcanic rocks.

Based upon a re-evaluation of the Mineral Resource Assessment of the Temagami area in 1995 by the Ontario Geological Survey, the Cobalt group sediments were targeted has having high potential for hosting sedimentary copper deposits. This potential was first recognized in 1979 based upon observations within the Cobalt area. Copper mineralization occurs in the Upper Lorrain formation quartz arenite near the contact with the overlying Gordon Lake formation.

Since the late 1970's, several regional studies have been undertaken to assess the potential of the Lorrain formation for hosting Witwatersrand type gold deposits. The gold at the Witwatersrand occurs at the edge of a fault bounded basin in interbeded thin beds and elongated lenses of clastic sediments of quartzites, grit and conglomerate, that are commonly a meter in thickness but sometimes are only centimeters thick. Gold is associated with thucolite, a hydrocarbon-uraninite mineraloid that is also rich in native silver, platinoid minerals, chalcopyrite, Ni-Co arsenides and sulphides, galena and sphalerite.

TRENCHING PROGRAM

Between June 17-27, 1999 a two separate trenches or stripped area were excavated with a 941 Caterpillar bulldozer and a Koehring Bantam C-186 track excavator equipped with a one-yard bucket. The first trench ("A"), measures 65 x 10 meters was excavated up hill of a slope with a 15-20% grade at the compass direction 320°. This trench is essentially the extension of pits 3 and 4 described in the 1998 report. The second trench ("B") is located 94 meters northwest (320°) of trench "A" and measures 50 meters in length and averages 7 meters in width. It is essentially the southwestward extension of trench 5 described in the 1998 report. On June 29, 1999 the author of this report at the request of Mr. Lacarte made a preliminary geological investigation of this work.

RESULTS

For reference, excerpts from the 1998 report with respect to pits 3,4 and trench 5 have been included as background information.

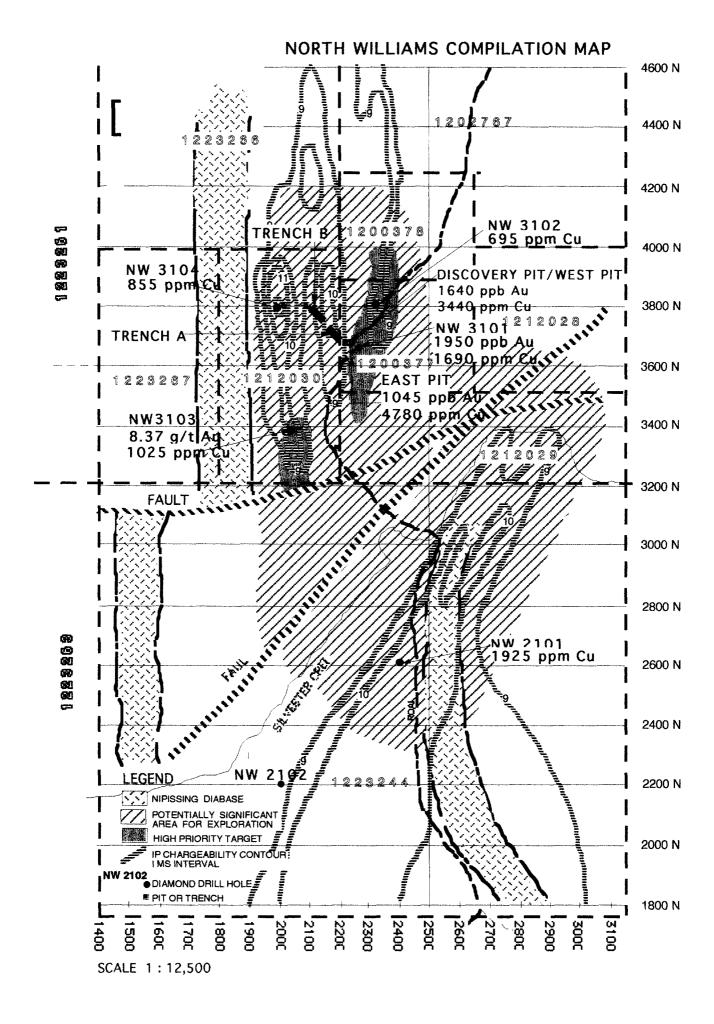
Pit 3 (1998 excerpt)

This pit is located 20 meters east of the discovery pit at 36+50 north and 22+70 east. It was initially excavated over an area measuring 3 meters x 15 meters. The western 4 meters of the excavation exposed bedrock that quickly plunged at 40° into overburden. The 11 meters from this point to its east end filled with water soon after it was dug out.

Where bedrock was exposed a 2-meter x 2-meter pit, 1.8 meters deep was opened after the fourth round of blasting. The northwest wall of the pit revealed from top to bottom, 40 centimeters of Lorrain formation quartz pebble conglomerate underlain by a coarse to gritty quartz arenite.

The quartz pebble conglomerate is matrix supported with round 0.5 cm -1.5 cm white to black quartz pebbles. This unit strikes 010° and dips 20° to the east, the quartz arenite is yellow-green and locally smoky gray. Where the grayness is pervasive, sulphide content tends to increase. The yellow-green colour is due to the sericitization of the feldspar in the arenite.

At the north end of this face a predominant 300° trending, 80° southwest dipping fracture set occurs. The fracture surface is typically rusty as a result of the oxidation of iron minerals. A narrow 1-2 mm smoky discolouration line parallels the fracture plane 2-cm away on either side of it.



Bornite was commonly observed along this line reflecting an oxidation state of supergene enrichment.

Pyrite mineralization was observed to occur as follows:

- 1. At the 70 cm depth a massive pyrite seam 2-cm wide x 60-cm long is situated parallel to the bedding and within the quartz arenite. The pyrite is very fine grained and gray to greenish-yellow. This seam is similar to the one that was exposed in the Discovery trench and contains elevated values of Au (700ppb), Cu (2740ppm), Co (240ppm), Ni (315ppm), Mo (215ppm), As (450ppm) Tl (220ppm).
- 2. Very fine-grained disseminated matrix pyrite is spatially associated with the transition from pebble conglomerate to quartz arenite. The matrix of the conglomerate can contain up to 30% pyrite over a 6 to 10 cm thickness. Samples from this section indicate anomalous Cu (265ppm), and high Ba values (1760ppm), Au does not show a corresponding increase.
- 3. Very fine-grained pyrite occurs as isolated flattened elliptical nodules 12cm in diameter and 4 cm thick. Interestingly, these nodules are elevated in the following elements, Au (1045ppb), Cu (115ppm), Co (765ppm), Ni (520ppm), Mo (280ppm), As (710ppm), Tl (240ppm). This signature is very similar to that observed in the pyrite seam, suggesting a common genetic relationship.
- 4. To a lesser extent pyrite also occurs as finely disseminated grains up to 1% in the arenite fraction. Quite often, chalcopyrite bornite and minor chalcocite also occur in conjunction with this pyrite.

Copper mineralization in the form of chalcopyrite, bornite, and chalcocite occurs in the matrix of the quartz arenite and the quartz pebble conglomerate. Total sulphide content ranges from 1-5% when it occurs as fine-grained disseminations. The pyrite-chalcopyrite-bornite ratio as a percentage of total sulphides varies from 80-10-10% to 20-40-40%. This mineralization seems to be restricted within the first meter of surface. Values ranged from 1350 ppm Cu to 4780ppm Cu.

Pit 4 (1998 excerpt)

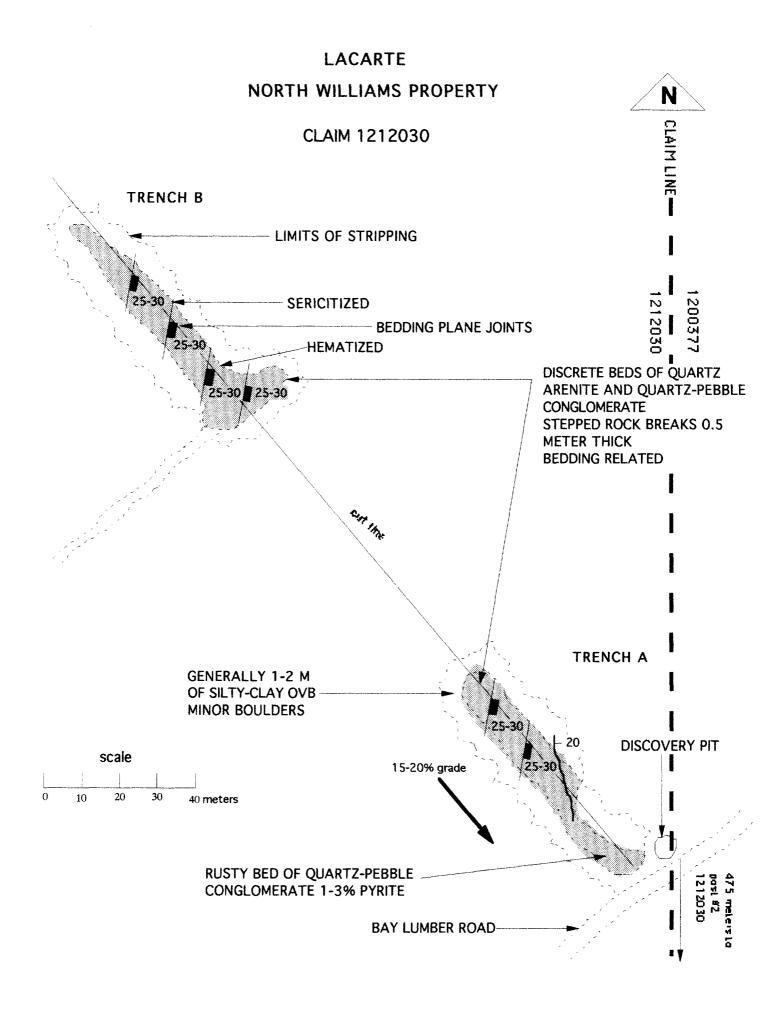
Pit 4 is situated 3 meters west of the discovery pit. A single blast was detonated to fracture the bedrock for sampling. Quartz arenite locally mineralized with up to 40% matrix pyrite was observed.

These results indicate that gold is strongly associated with the massive concentrations of pyrite and not with the finely disseminated variety. Copper mineralization on the other hand has an affinity with the disseminated pyrite and a weaker correlation with high barite content.

Trench "A"

As mentioned previously, this trench is the extension of pit 4. 1-2 meters of silty clay overburden was removed exposing upper Lorrain formation quartz arenite and quartz pebble conglomerate. The beds average 20 cm in thickness strike 010°, dip 25° to 30° to the east. A bedding plane jointing controls bedrock splitting resulting in a step-like pattern.

No significant mineralization was observed along this trench. This would suggest that the mineralization observed in the Discovery Pit and pits 3 and 4 is not pervasive stratigraphically up section but may be spatially associated with a structural control system in the immediate vicinity of the aforementioned pits. Alternatively, porosity differential of in the beds exposed by these pits may have an influencing control to the mineralization. Local hematization was observed.



Trench 5 (1998 excerpt)

This area on line 3800N station 20+70 was stripped of overburden to test a hypothetical northwest linear. No mineralized rock was exposed.

Trench "B"

This trench is the extension of trench 5 and is geologically identical to the observations of trench "A". Hematite mineralization is present and sulphides were scarce.

DISCUSSION of RESULTS

Preliminary investigations have revealed that the copper mineralization is restricted to the Upper Lorrain formation quartz pebble conglomerate near its transition with quartz arenite. Although this sequence is stratigraphically repetitive the mineralization is not.

In the most general sense, gold and copper mineralization indicate a hydrothermal origin. The pervasive and locally intense sericitization, fine grained matrix and bedding plane pyrite, nodular pyrite, elevated arsenic, thallium and barium values, and fault related mineralization support this hypothesis. It may have been that the mineralizing fluids preferentially migrated along highly permeable horizon or channel. The contact zone between the Upper Lorrain formation and the overlying Gordon Lake formation may have acted as the main channel for the mineralizing event. A feeder system associated with deep seated basin related faulting may have provided the plumbing mechanism and the associated fracturing may have controlled the mineralization. This event may have occurred with the development of the Cobalt Embayment.

RECOMMENDATIONS

- 1.) Prospect, map, and sample the property with emphasis on the down dip side of the Lorrain formation focusing on structure.
- 2.) Delineate linears and structure by interpretation of the ground magnetic survey with a field follow-up.
- 3.) Clean out the new trenches for detailed mapping and sampling.

July 4th, 1999 Walter Hanych

MECHANICAL STRIPPING AND TRENCHING LOG

North Williams Township, Ireland Project Claim 1200377

Date	Machine	Hours	Rate	tTotal	Day total
Jun 17/99	Dozer	8	\$75/hr	\$600	
	Excavator	8	\$85/hr	\$680	\$1,280
Jun 18/99	Dozer	8	\$75/hr	\$600	,
	Excavator	8	\$85/hr	\$680	\$1,280
Jun 19/99	Dozer	8	\$75/hr	\$600	
	Excavator	8	\$85/hr	\$680	\$1,280
Jun 20/99	Dozer	8	\$75/hr	\$600	\$600
Jun 21/99	Dozer	8	\$75/hr	\$600	
	Excavator	8	\$85/hr	\$680	\$1,280
Jun 22/99	Dozer	8	\$75/hr	\$600	
	Excavator	8	\$85/hr	\$680	\$1,280
Jun 23/99	Dozer	8	\$75/hr	\$600	
	Excavator	8	\$85/hr	\$680	\$1,280
Jun 24/99	Excavator	8	\$85/hr	\$680	\$680
Jun 25/99	Excavator	4	\$85/hr	\$340	\$340
Jun 27/99	Excavator	8	\$85/hr	\$680	\$680
Jun 28/99	demobe				\$800
Total for Irel	and Project cla	im 1200377			\$10,780

CERTIFICATE of QUALIFICATION

I Walter Hanych of the town of Collingwood, Province of Ontario, do hereby certify that:

- 1. I am a geologist and reside at RR # 3 Collingwood, Ontario, L9Y•3Z3.
- 2. I graduated from Laurentian University in 1979, with an Honours Degree of Bachelor of Science in Geology.
- 3. I have been practising my profession since graduation.
- 4. I have not received, any interest directly or indirectly, in the properties or securities held by Mr. Lacarte or any affiliate.
- 5. I consent to the use of this report in submissions for assessment credits or similar regulatory reguirements, and to regulatory authorities.
- 6. That I am the author of this report and inspected the field operations, and the collection of data from which this report is generated.

Walter Hanych

Collingwood, Ontario

July 5th, 1999



Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use)

(9980,00405

Assessment Files Research Imaging



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NORTH WILLTAMS

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ity of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the d to review the assessment work and correspond with the mining land holder. hing Recorder, Ministry of Northern Development and Mines, 6th Floor,

Instructions: - For work performed on Crown Lands before re - Please type or print in ink.	cording a claim, use form 0240.
1. Recorded holder(s) (Attach a list if necessary)	
ARCHIE · LACARTE	Client Number
Address	Telephone Number
GENERAL DELIVERY	705, 694, 9496 Fax Number
Name GOW GANDA, ON POT 110	705' 604-2497
Address	Telephone Number
RECORDED	Fax Number
JUL 0 7 1999	
2. Type of work performed: Check (∠) and report on only	
Geotechnical: prospecting, surveys, assays and work under section 18 (regs)	al: drilling, stripping, Ing and associated assays
WORK TYPE MECHANI (AL TRENCHING & STRIPPING	Office Use
PRELIMINARY GEOLOGICAL INSPECTION & REPORT	
	Total \$ Value of Work Claimed 10, 7-80,
Performed From 17 06 99 To 29 Month Performed Pay Month Pear Day Month	NTS Reference
Global Positioning System Data (if available) Township/Area NORM WILLIAMS	Mining Division Larder Lake.
M or G-Plan Number 6 3694	Resident Geologist District Mining Division Larder Lake Resident Geologist District Mirkland hake.
- complete and attach a Statement of Cos - provide a map showing contiguous minited in the copies of your technical reports of of your technical report	ng lands that are linked for assigning work;
3. Person or companies who prepared the technical report	(Attach a list if necessary)
WALTER HANYCH	705 · 445' 6440
PO BOX 688 COLLINGWOOD ON L	9448 705.445.6440
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number
	RECEIVED
4. Certification by Recorded Holder or Agent	
	206
WALTER MANYCH. do horoby	7 333 7 333
	certify that I have personal knowledge of the facts se
I, WALTER MANUCH., do hereby forth in this Declaration of Assessment Work having caused the or after its completion and, to the best of my knowledge, the an	certify that I have personal knowledge of the facts see work to be performed or withessed the same during
forth in this Declaration of Assessment Work having caused the	certify that I have personal knowledge of the facts see work to be performed or withessed the same during

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vork wa: mining la column t	Claim Number. Or if a done on other eligible and, show in this the location number if on the claim map.	Number of Claim Units. For other mining land, list hectares.	Value of work performed on this claim or other mining land.	Value of work applied to this claim.	Value of work assigned to other mining claims.	Bank. Value of wor to be distributed at a future date.
eg	TB 7827	16 ha	\$26, 825	N/A	\$24,000	\$2,825
eg	1234567	12	0	\$24,000	0	0
eg	1234568	2	\$ 8, 892	\$ 4,000	0	\$4,892
1	200377	1	10780	0	10,780	
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Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use)
W9980. 00405

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 685.

Work Type	Units of Work Depending on the type of work, list the number	Cost Per Unit	Total Cost	
Work Type	of hours/days worked, metres of drilling, kilo- metres of grid line, number of samples, etc.	of work	Total Cost	
MECHANICAL STRIPPING & TRENCHING	BY HRS, Two MACHINES FOR 10 PAYS	\$ 99 8/DAY	\$ 9,980	
	·		•	
Associated Costs (e.g. supplies	, mobilization and demobilization).			
DEMORE a	MACH INES		5∞	
Transp	portation Costs			
Food a	and Lodging Costs			
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	i Otal Value	of Assessment Work	10,780	
2. If work is filed after two years	e: performance is claimed at 100% of th and up to five years after performance this situation applies to your claims, u	e, it can only be claimed	at 50% of the Total	
TOTAL VALUE OF ASSESSMI	ENT WORK × 0.50 =	Total \$ value of worked claim		
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(please print full name)	, do hereby certify, that the costs were incurred while conducting			
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to make this certification.	TECEIV Engodes holder, egent or stat	e company position with signing a $2\cdot 1$	358 0	

GEOSCIENCE ASSESSMENT OFFICE Ministry of Northern Development and Mines

ARCHIE ALBANY LACARTE

GENERAL DELIVERY GOWGANDA. Ontario

Ministère du Développement du Nord et des Mines



Geoscience Assessment Office 933 Ramsey Lake Road 6th Floor Sudbury, Ontario P3E 6B5

Telephone: (888) 415-9846 Fax: (877) 670-1555

Visit our website at: www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

Dear Sir or Madam:

July 21, 1999

P0J-1J0

Submission Number: 2.19580

Status

Subject: Transaction Number(s): W9980.00405 Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Lucille Jerome by e-mail at lucille.jerome@ndm.gov.on.ca or by telephone at (705) 670-5858.

Yours sincerely,

ORIGINAL SIGNED BY

Blair Kite

Supervisor, Geoscience Assessment Office

Mining Lands Section

Work Report Assessment Results

Submission Number:

2.19580

Date Correspondence Sent: July 21, 1999

Assessor:Lucille Jerome

Transaction

First Claim Number

Township(s) / Area(s)

Status

Approval Date

W9980.00405

1200377

NORTH WILLIAMS

Approval

July 20, 1999

Section:

Number

10 Physical PSTRIP
10 Physical PTRNCH

Correspondence to:

Resident Geologist Kirkland Lake, ON

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Assessment Files Library Sudbury, ON

Recorded Holder(s) and/or Agent(s):

Walter Hanych

COLLINGWOOD, ONTARIO, CAN

ARCHIE ALBANY LACARTE

GOWGANDA, Ontario

