

# GM 56100

GEOLOGICAL REPORT ON THE WEEDON PROPERTY

Documents complémentaires

*Additional Files*



Licence



*License*

Cette première page a été ajoutée  
au document et ne fait pas partie du  
rapport tel que soumis par les auteurs.

Énergie et Ressources  
naturelles

Québec 

7M98229 039

REÇU AU MRN

'98 AOÛ 19 AM 11 04

BUREAU DU REGISTRE

Geological Report on the Weedon

Weedon, Dudswell & Lingwick Township, Quebec

NTS 21-E/11

'98 AUG 17 14:35

RES  
BUREAU  
REGISTRE

FOR

NAMEX EXPLORATION INC.

MRN-GÉOINFORMATION 1999

**GM 56100**

Luciano Vendittelli, B. Sc.  
61 Clermont Blvd.  
Laval, Quebec  
H7N 2Z5  
Tel: (450) 688-4339

July 30, 1998.

## TABLE OF CONTENTS

1.0 INTRODUCTION	1
2.0 LOCATION and ACCESS	2
3.0 REGIONAL GEOLOGY	3
4.0 LOCAL GEOLOGY	4
5.0 SULFIDE DEPOSITS and GEOLOGY of the ASCOT-WEEDON FORMATION	5
6.0 SUMMARY OF THE 1998 PROSPECTING WORK	6-7
7.0 SUMMARY OF THE 1998 GEOPHYSICAL SURVEYS	8
8.0 SUMMARY OF THE 1998 DIAMOND DRILL CAMPAIGN	9
9.0 CONCLUSIONS	10
10.0 RECOMMENDATIONS	11
11.0 EXPLORATION BUDGET	12
12.0 REFERENCES	13

## 1.0) INTRODUCTION:

The following report is the result of exploration work completed on the Weedon Property during the winter and spring of 1998 on claims belonging to NAMEX Exploration Inc.. This work consisted of linecutting, prospecting and geophysical surveys including an Induced Polarisation and a Magnetometer survey. Following this initial phase of exploraton work, two diamond drill holes on claims belonging to NAMEX Explorations Inc. were completed to test strong I.P. anomalies.

The property and the surrounding area is underlain by rocks belonging to the Ascot-Weedon Formation called the Weedon Schists. The area under study has been the focus of several exploration campaigns in the past. However, the Weedon-Lingwick area still represents one of the best exploration targets for hosting economic VMS-type deposits within the Appalachian Region of North America.

The area is underlain by the Weedon Schists, an Ordovician metavolcanic complex which hosted three past producing mines within the immediate vicinity of the property belonging to NAMEX Explorations Inc.

The Weedon Mine contained 1.6 MT grading 2.33% Cu, 1.12% Zn, 4.4g/t-Ag and 0.50 g/t-Au. The Solbec Mine contained 1.9 MT grading 1.56% Cu, 4.5% Zn, 52.11 g/t-Ag and 0.60 g/t-Au. The third producing mine in the area was the Cupra d'Estrie which contained 3.0 MT grading 2.84% Cu, 3.2% Zn, 46.65g/t-Ag and 0.55 g/t-Au.

2.0) LOCATION and ACCESS :

The Weedon Property is located approximately 5 Km southeast of the town of Weedon and 50 Km northeast of the city of Sherbrooke. The city of Sherbrooke is located approximately 150 Km east of the city of Montreal. The field area can be accessed from Montreal via Highway #10 east towards Sherbrooke and then onto Highway #112 northeast towards Weedon. From Weedon access to the property is via a paved road for a distance of 5 Km to the southeast through the town of Fontainebleau.

The Weedon Property consists of 60 contiguous claims located within Weedon, Dudswell and Lingwick Township covering a total surface area of 4514 hectares. These 60 claims are situated within the following surveyed lots as listed below:

- 1) Weedon Twsp: Range I, Lots 1 - 21  
Range II, Lots 1 - 21
  
- 2) Dudswell Twsp: Range I, Lots 25 - 28  
Range II, Lots 27 & 28
  
- 3) Lingwick Twsp: Range A, Lots 1 & 2  
Range B, Lots 1 & 2  
Range C, Lots 1 & 2  
Range D, Lots 1 & 2  
Range E, Lots 1 & 2  
Range F, Lots 1 & 2

For localisation of claims belonging to NAMEX Exploration Inc. see claim map in map pocket #1.

# QUÉBEC

0 100 200 Km



QUÉBEC

Weedon Property

© Copyright Airmaps Canada Ltd

### 3.0) REGIONAL GEOLOGY:

The area is underlain by the Weedon Schists extending across a strike length of greater than 30 km. from Lake St. Francis in the east to an area 5 km east of Bishopton in the west. This belt trending approximately 40 degrees in a southwest-northeast direction has a variable thickness of 3-10 km. This unit forms part of the larger Ascot-Weedon Formation or Volcanic Belt.

The Weedon Schists consist of metavolcanic rocks composed of mafic and acid volcanics of Lower Ordovician Age. This unit dipping to the southeast is bound by steeply dipping thrust faults to the northwest, the Weedon Fault and to the southeast, the Guadeloupe Fault. The Weedon Schists occur in fault contact with carbonate rocks of the Lake Aylmer Formation to the northwest and sedimentary rocks of the St. Francis Group to the southeast, both these units are of Siluro-Devonian Age. The area underlain by the Weedon Schists is intruded by two granitic bodies named the Lake Aylmer Granite and the Winslow Granite.

Previous petrochemical studies completed within the Ascot-Weedon Volcanic Belt has indicated that that these rocks are a mixed assemblage of tholeiitic and calc-alkaline magmatic affinities. Within rocks found in the Superior province and other Island Arc terrains, similar relationships have also been observed.

The Ascot-Weedon Volcanic Belt has been a prolific terrain for hosting sulfide deposits. Several sulfide occurrences and five past producing mines are located within the Ascot-Weedon Volcanic Belt. Within the immediate area of the Weedon Property is located three past producing mines. The three past producing mines were the Weedon Mine, the Cupra-d'Estrie and Solbec Mine.

#### 4.0) LOCAL GEOLOGY:

The field area is dominated by rocks belonging to the Weedon Schists, which form part of the Ascot-Weedon Volcanic Belt. The Weedon Schists are composed of crystalline rhyolite tuffs, intermediate and mafic pyroclastic rocks, mafic flows, rhyolite porphyries and felsic pyroclastics and related sediments, volcanoclastic rocks and graphitic black shales.

Within the immediate area of the property is located the Weedon Mine. At the mine the orebody occurs at the contact between a chloritized footwall and a sericitic footwall unit. The contact between the orebody and the adjacent footwall is sharp and the ore appears massive. Towards the hanging wall the orebody goes from semi-massive to disseminated sulfide. Both the chloritized footwall and sericitized hanging wall are products of alteration fluids related to the formation of the Weedon deposit. Originally the footwall rocks were probably part of a mafic flow unit while the hanging wall rocks were probably derived from a unit composed of rhyolite, felsic tuffs and related felsic pyroclastics. In cross-section the down dip extension of the Weedon orebody appears to be cut off or cannibalized by the Lake Aylmer Granite to the southeast.

Previous work completed on the Weedon Mine identified a metal zonation from a zinc dominated mineralized zone adjacent to the chloritized footwall to a pyrite+chalcopyrite dominated mineralized zone adjacent to the sericite altered hanging wall. The chloritized footwall zone is spatially associated with an iron formation of variable thickness. This stratigraphic relationship and metal zonation are suggestive of an inverted sequence. Therefore, the structural footwall would actually be the stratigraphic hanging wall.

Sulfide mineralization occurring at the Weedon Mine, the Solbec Mine and the Cupra d'Estrie are all spatially related to the presence of an iron formation of varying thickness. This stratigraphic unit appears to be a marker horizon, along which economic sulfides have been deposited.

Structurally the Weedon Schists are generally highly deformed with well developed banding parallel to the main schistosity. The known sulfide deposits of the area occur within strongly deformed shear zones. The rocks of the area have a northeast trend with a variable southeasterly dip.

5.0) SULFIDE DEPOSITS and GEOLOGY of the ASCOT-WEEDON FORMATION:

Since exploration began in the Eastern Townships during mid-1800's a total of more than 40 known sulfide occurrences and deposits of varying size have been discovered within the Ascot-Weedon Formation.

Previous exploration and extensive scientific studies on these deposits have demonstrated that the known sulfide mineralization occurs either at or near the volcano-sedimentary contact or related to intensely sheared mafic-felsic volcanic contacts. All the major deposits located in the Ascot-Weedon Volcanic Belt including those found in the Weedon area appear to have some stratigraphic control. The deposits are focused along a specific stratigraphic horizon, lying within 200m of the volcano-sedimentary contact or at the mafic-felsic volcanic interface.

Therefore, any future exploration within the Ascot-Weedon Formation should target geochemical and geophysical anomalies situated along the known geological parameters identified within known existing sulfide deposits of this formation.

6.0) SUMMARY OF THE 1998 PROSPECTING WORK:

Prospecting within the limits of the Weedon Property examined several outcrops starting from the site of the Weedon Mine going southwest over a strike length of approximately 10.0 km.

A cross-section of outcrops examined at the Weedon Mine displays the following sequence from the southeast to the northwest of the following rock units;

- a) Granitic rocks of the Lake Aylmer intrusion.
- b) Sheared rhyolite, felsic tuffs, felsic pyroclastics and quartz-sericite schists.
- c) Sheared and banded chloritized mafic volcanics.
- d) Iron Formation of variable thickness (< 2m).
- e) Volcanoclastics, siltstones and related metasediments.

The massive sulfide mineralization occurs between units (b) and (c) with the Iron Formation acting as a marker horizon.

A series of outcrops situated 1.5 Km southwest of the Weedon Mine were observed to contain well banded chloritized mafic volcanic rocks belonging to the footwall in contact with sheared felsic volcanics and quartz-sericite schists belonging to the hanging wall. Within this area several large angular blocks of Iron Formation were also observed. Therefore from field evidence, the mine sequence and mine stratigraphy appear to be preserved over this strike length. Limited drilling has been conducted over this portion of the property in the past, which appears to host favourable geology.

For localisation of samples and drill holes, see compilation map within map pocket #2 at the end of this report.

Several outcrops were also observed in the area approximately 3.0 km southwest of the Weedon Mine. In a creek situated 1.0 km west of Lac a la Truite which drains the same lake, a series of outcrops were observed across 200m. These outcrops are composed mainly of strongly sheared felsic pyroclastics and quartz-sericite schists along with minor chloritized mafic volcanic rocks. Trace to 10% pyrite mineralization was seen within this series of outcrops.

Minor to strong carbonate alteration is also evident. This area of the property displays the typical hanging wall stratigraphy and disseminated pyrite mineralization found within the hanging wall of the Weedon Mine. Although this part of the property displays favourable geology and sulfide mineralization, only limited drilling has been completed within this area. Therefore, this area situated west of Lac a la Truite would be a high priority exploration target for any future exploration work.

The next area examined is a series of outcrops situated 7-10 km southwest of the Weedon Mine. Here a number of outcrops can be seen to contain trace to 4% chalcopryite mineralization hosted within a green chloritized mafic volcanic unit. These outcrops probably represent the southwest extension of the chloritized footwall rocks of the Weedon Mine stratigraphy. The blebs and disseminated chalcopryite mineralization observed within this part of the property probably represent partially remobilized sulfide mineralization within this volcanic unit. No felsic volcanic rocks were observed over this portion of the property, which form the hanging wall of the mine stratigraphy. However, based on the occurrence of chalcopryite mineralization within this mafic volcanic unit, this area of the property would merit follow-up work.

A total of four rock samples were collected during the prospecting campaign. The best result obtained was 2.54% Cu from sample #661051. This sample was taken from a road cut situated on Highway #257, 6.5 km south of Weedon (Lot 11, Range I) containing 1-10% chalcopryite hosted within a chloritized mafic volcanic unit. A summary of all the assay results are listed in Appendix # 1.

7.0) SUMMARY OF THE 1998 GEOPHYSICAL SURVEYS :

The company Geosig Inc. conducted a follow-up survey to the geophysical survey completed during 1997 over the Weedon Property belonging to NAMEX Exploration Inc. The 1998 geophysical survey was conducted over Lots 16 - 18 of Range I and Lots 16 - 20 of Range II ,Weedon Township.

This follow-up survey included a total of 8.8 km of Induced Polarisation (I.P.) using the following parameters ( $a = 25\text{m}$  &  $n = 5$ ). The instrument used to conduct this I.P. survey was an IP-6 BRGM type receiver with a TX-TP3 type transmitter.

This work also included the completion of a 9.4 km magnetometer survey. The instrument used to complete this survey was an Omni-IV(base) and Omni-Plus(field).

The I.P. survey outlined 19 potential targets of varying strengths and parameters. These anomalies were classified from priority 1 through 4 with priority 4 anomalies being the weakest and priority 1 anomalies being the strongest. The two diamond drill holes completed on the Weedon Property tested strong I.P. anomalies outlined by the Geosig Inc. survey. For a more detailed discussion of the results obtained from the I.P. survey and the Magnetometer survey, the reader should refer to the accompanying geophysical report by Geosig Inc.

#### 8.0) SUMMARY OF THE 1998 DIAMOND DRILL CAMPAIGN:

The company Forages Major-Kennebec completed two diamond drill holes (#W-01-98 & #W-02-98) totalling 282 meters on the Weedon Property belonging to NAMEX Exploration Inc. during late April, 1998. These two holes were completed to drill test the conductor axis of a type-1 priority I.P. anomaly. Hole #W-01-98 was collared within the central portion of Lot 18, Range II near its boundary with Lot 19; grid co-ordinates are L31+00N, 6+08E. Hole #W-02-98 was collared within the central portion of Lot 19, Range II with grid co-ordinates being L34+00N, 6+25E. Both diamond drill holes had a dip angle at the collar of -45 degrees with an azimuth of 273 degrees (west).

Examination of the drill core from both hole #W-01-98 and hole #W-02-98 revealed varying thicknesses of green chlorite schist, quartz-sericite schist and black graphitic shales. All three units within the drill core displayed similar textures to rocks found adjacent to the Weedon Mine. Mineralization consisted of trace to 10% disseminated and stringer pyrite along with trace chalcopyrite. A complete summary of the drill logs for hole #W-01-98 and hole #W-02-98 are found within Appendix #2. The two diamond drill holes were logged by M. Marcel Vallee, a consulting engineer from Quebec City.

A total of nine core samples were taken from hole #W-01-98 and one sample from hole #W-02-98. All samples were assayed for Cu and Au. The ten samples returned no anomalous Cu or Au values. For a summary of all assay results, see Appendix #1.

9.0 CONCLUSIONS :

The Weedon Property which is 100% owned by NAMEX Exploration Inc. located adjacent to an area with historical production from three past producing mines has the potential to host other economic VMS-type deposits. Outcrops situated southwest of the Weedon Mine exhibit sulfide mineralization similar to the hanging wall of the Weedon deposit. Evidence was also found in outcrop which showed that the Weedon Mine stratigraphy continues along strike for several kilometers to the southwest. Many similarities were seen between the rocks observed on the Weedon Property and the rocks found at the Weedon Mine. Therefore, the Weedon Property with its proximity to three past producing mines and similar geology displays all the criteria necessary to justify further detailed exploration.

## 10.0 RECOMMENDATIONS:

The type of work required to outline potential targets would be detailed mapping(1:5,000) and prospecting of the property along with a magnetic survey across the property..The goal of this work would be to outline the southwest extension of the Iron Formation marker horizon of the Weedon Mine. The Weedon Mine is located on a magnetic high,which corresponds to the occurrence of the Iron Formation at or within the Weedon deposit. Therefore,a magnetic survey over the property would be a cost effective exploration tool to outline the existence of the Iron Formation to the southwest. The other goal of this survey would be to identify the other stratigraphic feature or control on the Weedon deposit;that being the chloritized footwall alteration and sericitized hanging wall alteration.As a result of this work ,any potentially favourable targets or anomalous areas would initially be trenched to expose possible bedrock sources to these anomalies. This trenching would also be a cost effective exploration tool to follow the Weedon Mine stratigraphy to the southwest.

11.0 PROPOSED EXPLORATION BUDGET :

This proposed phase of exploration for the Weedon Property would have a total budget of \$16,550.00.

The breakdown of this exploration budget would be as follows:

1) 30 line-Kms of Mag+VLF @ \$150.00/Km	= \$4,500.00
2) 30 line-Kms of grid mapping	
15 days (geologist @ \$300.00/day)	= \$4,500.00
15 days (prospector @ \$170.00/day)	= \$2,550.00
3) Related Field Expenses	= \$1,200.00
4) Assays	= \$800.00
5) Trenching (12hrs. @ \$75.00/hr.)	= \$900.00
6) Geological Report on Property	
7 days (geologist @ \$300.00/day)	= \$2,100.00
	<hr/>
TOTAL	= \$16,550.00



12.0) REFERENCES:

P.13

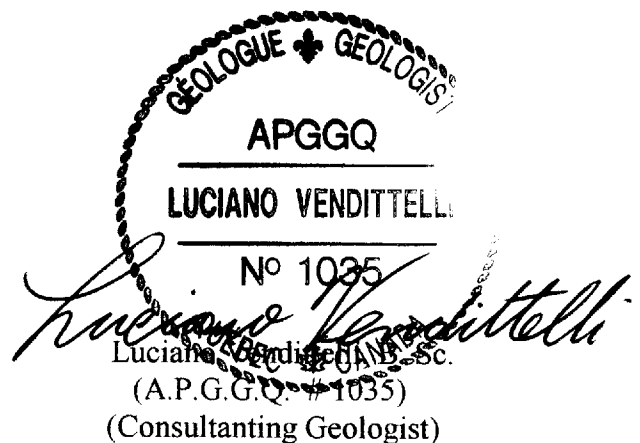
- Bartlett, R.O., 1955, Two Diamond Drill Logs & 1 Sketch, Range E, Lot 2, Lingwick Twsp., GM- 3296-B.
- Bartlett, R.O., 1957, One Diamond Drill Log & 1 Sketch , Range E, Lot 2, Lingwick Twsp., GM- 3296-C.
- Brooks, R., Perusse, J., 1956, Report on an Electro-Magnetic Survey, Kennco Expl. Canada Ltd., GM- 4160-B.
- Carriere, G., 1959, Two Diamond Drill Logs & 1 Plan of Electro-Magnetic Survey, Terra Nova Expl. Ltd., Range E, Lot 2 & 3, GM- 8544.
- Clifton, F., 1956, Report on Electro-Magnetic Survey, Kennco Explo., Range E, Lot 2 & 3, GM- 4160-A.
- Duquette, G., 1961, The Weedon Area and its Vicinity, Wolfe and Compton Counties, Dept. of Natural Ressources, Quebec, DP-025.
- Labbe, J.Y., 1991, Geologie de la Region de Weedon (Estrie), Carte #2081, M.E.R. du Quebec, ET-88-05.
- Moreau, Wodward & Co., 1958, Sketch of Electro-Magnetic Survey, Bartlett Claims, Range E, Lot 2 & 3, GM- 8552.
- Morgan, R., 1985, Report of Work - March 1983 to December 1984, Sullivan Joint Venture - Stratford Property, Noranda Expl. Co. Ltd., GM- 42307.
- Perusse, J., 1956, Three Diamond Drill Logs & 1 Sketch on Bartlett Claims, Range E, Lot 2 & 3, GM- 3296-A.
- Tremblay, A., et al., 1991, Geologie de la Region de Scotstown, MB-96-12.
- Van Ingen, R., 1965, Evaluation of the Chances of Finding Copper-Zinc Mineralization in the Winslow South Area(Comtes de Wolfe,de Frontenac et de Compton), (Lingwick, Weedon, Stratford and Winslow Twsp.), DP-091.


## CERTIFICATE OF QUALIFICATION

I, Luciano Vendittelli, do hereby certify that :

- 1.0 I am a practising consulting geologist with offices at 61 Clermont Blvd. Laval, Quebec, Canada.
- 2.0 I am a graduate of McGill University (1985) , with a Bachelor of Science Degree in Geology.
- 3.0 I am a member of the Prospectors and Developers Association of Canada and a member of Professional Association of Geologists & Geophysicists of the Province of Quebec (A.P.G.G.Q.) .
- 4.0 I have no direct or indirect interest in the properties of securities of Namex Exploration Inc.
- 5.0 I have not received and I do not own any direct or indirect shares in the securities of Namex Exploration Inc., nor do I expect to receive any such shares.
- 6.0 I have visited the Weedon Property belonging to Namex Exploration Inc. and authored an evaluation report on the same property.
- 7.0 The mineral exploration company, Namex Exploration Inc. has authorization to use the evaluation report on the Weedon Property as an official company document.

July 30 , 1998  
Laval, Quebec, Canada



GEOLOGUE  GEOLOGIST  
APGGQ  
LUCIANO VENDITTELLI  
N° 1035  
*Luciano Vendittelli*  
Luciano Vendittelli B.Sc.  
(A.P.G.G.Q. #1035)  
(Consultanting Geologist)

APPENDIX #1

ASSAY RESULTS



CLIENT: NAMEX EXPLORATION  
REPORT: C98-61268.0 ( COMPLETE )

DATE RECEIVED: 08-JUN-98

PROJECT: NONE

DATE PRINTED: 17-JUN-98

PAGE 1 DE 1

SAMPLE NUMBER	ELEMENT UNITS	Au30 PPB	As PPM	Sb PPM	Cu PPM	CuOL PCT	Pb PPM	Zn PPM	Mo PPM	Ag PPM	Hg PPM
661051		<5	8.5	0.6	>20000	2.1	11	38	3	5.1	<0.010
661052		16	1.3	<0.2	1834		4	21	2	0.7	<0.010
661053		5	7.1	<0.2	7878		117	3346	27	3.3	0.771
661054		59	487.0	8.8	44		17	16	15	6.9	0.199



CLIENT: NAMEX EXPLORATION  
REPORT: C98-61268.1 ( COMPLETE )

DATE RECEIVED: 10-JUN-98

PROJECT: NONE

DATE PRINTED: 17-JUN-98

PAGE 1 DE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PCT
------------------	------------------	-----------

661051		2.54
--------	--	------

APPENDIX #1

ASSAYS - DRILL CORE SAMPLES



CLIENT: NAMEX EXPLORATION  
REPORT: C98-61884.0 ( COMPLETE )

DATE RECEIVED: 13-JUL-98

PROJECT: WEEDON

DATE PRINTED: 22-JUL-98

PAGE 1 DE 1

SAMPLE NUMBER	ELEMENT UNITS	AU30 PPB	CU PPM
661101		6	59
661102		<5	50
661103		<5	48
661104		<5	43
661105		<5	24
661106		10	40
661107		9	42
661108		<5	53
661109		<5	48
661110		8	41

APPENDIX #2

DIAMOND DRILL HOLE LOGS

















Laval, le 29 octobre 1998.

M. Michel Dion  
Ministère des Ressources Naturelles  
5700,4e Avenue Ouest  
Local A-115  
Charlesbourg(Quebec) G1H 6R1

Objet: Travaux d'exploration, Propriété Weedon de Namex Explorations Inc.  
Ref.: Dossier no. 98-229-039

Cher M. Dion,

La présente fait suite à votre lettre du 20 octobre, 1998. J'ai contacté M. Vallée pour compléter ce dossier, il va signer une copie originale des journaux de sondage et les envoyer à votre bureau. Les carottes des trous # W-01-98 et # W-02-98 sont entreposées au 1816 Chemin Gaudreau, Weedon; la résidence de M. Claude Jacques, téléphone(819)877-5120.

La carte de localisation des travaux a été révisée pour être conforme aux règlements du ministère. Les trous de forages et les échantillons de roches pris sur la propriété ont été localisés sur les lots appropriés.

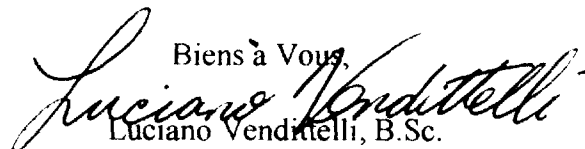
Le montant de \$14,294.16 pour le levé de géophysique( P. P. ) doit être crédité aux claims suivants où les travaux ont été complétés:

- |                            |                           |
|----------------------------|---------------------------|
| 1)P014375 , Lot 17,Rang II | 5)P014385 , Lot 17,Rang I |
| 2)P014376 , Lot 18,Rang II | 6)P014386 , Lot 18,Rang I |
| 3)P014377 , Lot 19,Rang II | 7)P014387 , Lot 19,Rang I |
| 4)P015084 , Lot 20,Rang II | 8)P015086 , Lot 20,Rang I |

Le montant de \$8,500.00 pour le forage # W-01-98 doit être crédité au claim P014376, Lot 18-Rang II. Le montant de \$10,379.23 pour le forage # W-02-98 doit être crédité au claim P014377, Lot 19-Rang II.

Les montants des travaux de prospection et de consultation doivent être répartis sur tous les claims où ces travaux ont été complétés.

Espérant le tout conforme. Si vous avez besoin d'autres renseignements n'hésitez pas à me contacter.

Biens à Vous,  
  
Luciano Venditelli, B.Sc.  
A.P.G.G.Q.

BUREAU DU REGISTRE  
03 OCT 4 AM 10 33  
REÇU AU BUREAU