

Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

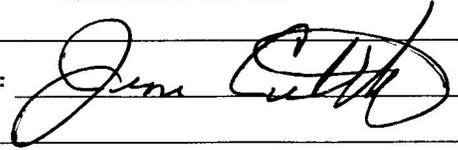
Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geological, Geochemical, Prospecting

TOTAL COST: 5971.00

AUTHOR(S): Jim Cuttle

SIGNATURE(S):



NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): _____

YEAR OF WORK: 2013

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5489153

PROPERTY NAME: Blurton / Zett /

CLAIM NAME(S) (on which the work was done): 1018565

COMMODITIES SOUGHT: Ni, Co, Mg

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 082LNW039

MINING DIVISION: Kamloops

NTS/BCGS: NTS 82L/11

LATITUDE: 50 ° 39 ' 45 " LONGITUDE: 119 ° 0 ' 51 " (at centre of work)

OWNER(S):

1) Jim Cuttle 2) _____

MAILING ADDRESS:

86 Cloudburst Road

Whistler, BC

OPERATOR(S) [who paid for the work]:

1) Same as owner 2) _____

MAILING ADDRESS:

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

Shuswap Metamorphic Complex, Monashee Group, gneiss, ultramafic, serpentized lherzolite, nickel sulphide, nickel in silicate,

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 2510

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping	800m x 800m	1018565	2000.00
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock	17	1018565	2000.00
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic	10m x 10m	1018565	300.00
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)	1000m x 1000m	1018565	1671.00
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	5971.00

BLURTON CREEK NICKEL PROPERTY

(Minfile # 082LNW-039)

Mara Lake Area / Salmon Arm

B.C

NTS - 82L-11

(UTM 83/Z10, 357690E, 5614220N)

Kamloops Mining Div.

Prepared by:

**Jim Cuttle, B.Sc., P.Geo.
86 Cloudburst Road
Whistler, B.C. V0N 1B1
CANADA**

Date:

February 7, 2014

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Appendix II Geochemical Analysis - Rock Samples (ICP/MS and Ni sulphide extraction)

AUTHORS CERTIFICATE

I, Jim Cuttle, of the Municipality of Whistler, British Columbia, Canada, do certify that;

- I work as a consulting geologist with a home office at 86 Cloudburst Road, Black Tusk Village, Whistler, British Columbia, Canada. V0N-1B1.
- I am a graduate of the University of New Brunswick (1980) with a Bachelor of Science Degree in Geology.
- I have practiced my geological profession continuously for over thirty three years in the capacity of exploration and consulting geologist. My work has included project generation, mineral property assessment, project management and data compilation for various public and private mineral exploration companies in Canada and Internationally.
- I am a registered member in good standing of The Association of Professional Engineers and Geoscientists of the Province of British Columbia (19313) and have been since July 1992.
- I have previously visited this property on May 12th, May 27-28th and August 1, 2013.
- This Technical Report on the Blurton Nickel Property is based on the author's knowledge of the property, data research and subsequent preparation of this report.

Dated this 7th day of February, 2014



Jim F. Cuttle, B.Sc., P.Geo

1. INTRODUCTION

The Blurton Creek nickel occurrence, (Minfile number 82LNW-039, also known as the Zett/Eagle/Jay showing) was investigated by the author during three separate field visits over four days in May and August, 2013.

The purpose of the work was to locate the nickel rich ultramafic rocks described in a 1969 government assessment report and determine whether or not the nickel previously identified is associated with silicate and/or sulphide minerals in the rock.

Field work during 2013 included geological mapping, geochemical rock sampling, prospecting and petrographic analysis.

2. PROPERTY LOCATION / ACCESS

The claim area is located 18 kilometres southeast of Salmon Arm and 6.5 kilometres south of Mara Lake, east of highway 97A. There is a network of well used logging roads and trails allowing reasonable access throughout the property by using the Zettergreen forest service road off highway 97A at UTM 354211E, 5615072N. The claims are found on NTS 82L-11.

The claim lies at an average elevation of 1230 metres along a moderately steep west facing slope. Over 70% of the claim is covered by 2nd growth mature forest, the remainder has been recently logged specifically along its southern boundaries.

3. CLAIM DETAILS

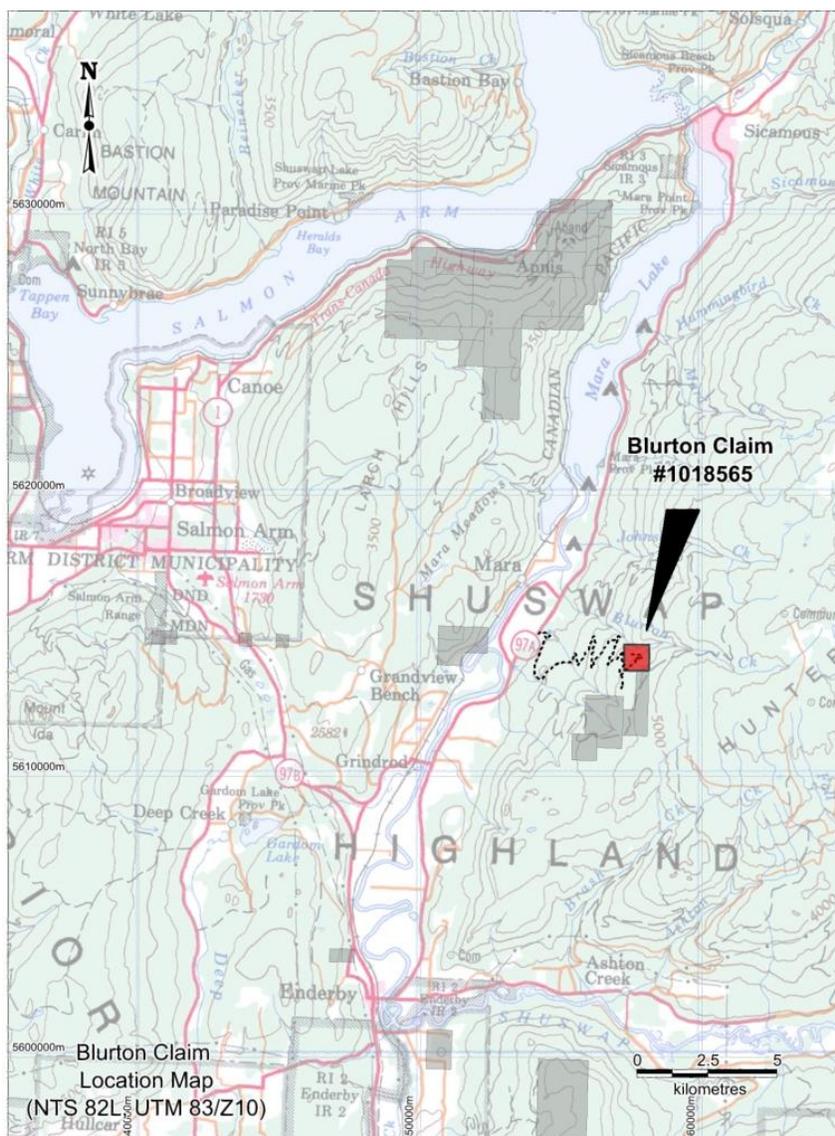
The Blurton Property comprises one mineral tenure with a total area of 81.94 hectares. Tenure details are included in Table 1 below. The claims are centered on UTM Zone 10, NAD 83, 357690 east, 5614220 north.

Table 1. Claim details

Claim Number	Staked	Size (ha)	Expiry	Owner
1018565	April 15, 2013	81.94	April 15, 2017	Jim Cuttle

Tenures are referenced to a province-wide system of electronic “on line” unique Universal Transverse Mercator (UTM) geographical definitions and there is no physical representation in the field. Jim Cuttle is the current registered owner of the tenure.

Figure 1. Location Map - Blurton Claim



4. PROPERTY HISTORY and PREVIOUS RESULTS

A limited amount of public information is available for the Blurton nickel occurrence. The main nickel rich ultramafic body located in the centre of the claims was likely discovered in the mid 1960's during early logging activities in the area.

A government assessment report (#2510) written by D. Arscott in 1969 is the first and only public information documenting any geological field work and anomalous rock assays from the centre of the Blurton Property. The report details results of soil and stream sediment sampling, rock geochemistry and geological mapping. It identifies anomalous nickel from ultramafic rocks outcropping over an area of 1000 feet by 500 feet with a consistent nickel grade averaging 0.28%.

The property has since been staked intermittently over the following years but no assessment work detailing field work has been recorded. The showing is known as the Zett, Eagle, Jay prospect, Minfile # 82LNW039.

5. GEOLOGY

The Blurton Property is underlain by rocks that belong to the Shuswap Metamorphic Complex. This is a group of rocks that occurs along the western edge of the Omineca Crystalline Belt consisting of intensely to weakly metamorphosed sedimentary and volcanic rocks that are exposed north of the North Thompson River to the US border and from the Arrow Lakes in the east to Lake Okanagan in the west. The complex is divided into three groups, the Monashee Group, the Mount Ida Group and the Chapperon Group (after McCance, J.A and D.B. Petersen, 1978).

5.1 Property Geology

During the four days of prospecting and rock sampling the author was able to determine that the Blurton Property includes rocks dominated by the Monashee Group. These are distinguished by high-grade metamorphic rocks that have resulted in outcrop exposures of alternating series of banded gneiss, amphibolite, mafic volcanics, calcareous sediments, marble and lesser pegmatite dykes and sills. These units have likely been intruded by granitic to mafic intrusives that have also been similarly metamorphosed into augen gneiss and biotite feldspar amphibole gneiss.

A younger ultramafic plug of serpentized lherzolite (see petrographic report in appendix) forms a mushroom shape dark green to black aphanitic ultramafic intrusive defined by outcrop over an area of 300 metres by 300 metres in the middle of the property. A second small lens of ultramafic likely occurs 370 metres to the southeast, represented by large angular float boulders from a local source. The ultramafic is commonly massive and very hard but may also exhibit a knobby like layered texture resulting from resistant olivine crystals formed during differential melting.

Photo 1. Typical outcrop exposure of the serpentized lherzolite at Blurton.



Along the western edge of the claims are several exposures of diorite that outcrop along a recently logged hillside. This area of outcrop measures 130 metres by 50 metres.

Both the ultramafic and dioritic units are relatively fresh and are interpreted to intrude the older gneissic rocks of the Monashee Group.

5.2 Mineralization

Under the hand lens, the ultramafic rocks are associated with 1-2% finely disseminated magnetite and hematite or otherwise wispy pyrrhotite. Nickel minerals could not be visually identified in the field. No other mineralization of interest was found in the other rock types.

6. FIELD PROGRAM - 2013

A period of four field days were spent on the property during May and August, 2013. This work included geological mapping, geochemical rock sampling, prospecting and petrographic analysis.

6.1 Geological Mapping/Prospecting

Prospecting and mapping identified four basic rock types.

In the southern half of the claims rock outcrop is dominated by a series of highly variable banded amphibolite gneiss, quartz plagioclase hornblende schist and small boundinaged quartz muscovite pegmatite. In the southwest of the property this unit is intruded by rusty and foliated quartz eye felsic rock compositionally similar to rocks of the granitoid family.

A younger ultramafic plug of serpentized lherzolite (see petrographic report in appendix) forms a mushroom shape dark green/ black aphanitic intrusive defined by outcrop over an area of 300 metres by 300 metres in the middle of the property. A second small lens of ultramafic likely occurs 370 metres to the southeast and is represented by large angular float boulders likely close to source. The ultramafic is commonly massive and very hard and may also exhibit a knobby like layered texture resulting from resistant olivine crystals formed during differential melting.

Along the western edge of the claims are several exposures of diorite measuring 130 metres by 50 metres and outcropping along a recently logged hillside,. Other similar diorite and quartz diorite occur near sample Blur-1 in the south east of the property. The unit generally appears fresh and unaltered and is the youngest rock type seen on the claims.

Photo 2 Typical banded amphibolite gneiss with calcareous layers



Photo 3 Amphibolite gneiss with white pegmatite boudin



Photo 4 Typical quartz eye granitic gneiss



Photo 5 Ultramafic boulder near sample Blur-1



6.2 Rock Sampling

Rock sampling was restricted to the ultramafic rocks in the centre of the property. A total of 17 rock grab samples were collected from the ultramafic outcrop with the exception of samples Blur-1,2 and 12 which were from angular float material from the same central area. Their locations are referenced in the table below.

The purpose of the sampling work was to locate the nickel rich ultramafic rocks described in a 1969 government assessment report and determine whether or not the nickel grades of 0.20% to 0.39% Ni previously identified are associated with silicate and/or sulphide minerals in the rock.

6.3 Geochemical Analysis (Total nickel and sulphide nickel)

17 rocks were analyzed by Acme Labs for total nickel content using a 4 acid digestion with a multi-element ICP/MS finish. All rock samples contained a relatively uniform amount of total nickel, averaging 0.10% to 0.30% Ni. Because nickel cannot yet be economically extracted from silicate minerals such as pyroxene and olivine it is important to determine what percentage of the 'total nickel' analysis is directly related to the silicate minerals (pyroxene, olivine) and what percentage to sulphide nickel (pentlandite, pyrrhotite as examples).

This was done by taking the same rock samples (Blur-8,9,12,13,14 and 17) and use a selective nickel sulphide leach to digest and liberate only sulphide related nickel for the finishing analysis. Results of this selective leach show 15% - 40% of the total nickel in the rock is related to the sulphide minerals pentlandite and nickel rich pyrrhotite or an average of 0.04 - 0.12% sulphide nickel.

Table 2 2013 Rock sample analysis results (Ni_ppm or Ni_% represents total nickel)

ID	Number	Ni_ppm	Ni_%	Ni_Sul%	Cr_ppm	Cr%	Co_ppm	Fe%	Mg%	UTM83_E	UTM83_N
1	Blur-1	2,547	0.25	NS	1,134	0.11	114.5	5.59	26.24	357,900	5,613,838
2	Blur-2	2,298	0.23	NS	1,212	0.12	105	5.03	25.87	357,765	5,613,886
3	Blur-3	12.9	0.00	NS	54	0.01	17	6.45	2.70	357,752	5,613,885
4	Blur-4	1,035	0.10	NS	1,698	0.17	89.9	7.86	13.48	357,292	5,611,670
5	Blur-5	2,151	0.22	NS	1,144	0.11	95.9	5.2	23.25	357,615	5,614,109
6	Blur-6	1,668	0.17	NS	890	0.09	85.7	5.13	21.96	357,609	5,614,181
7	Blur-7	2,769	0.28	NS	1,516	0.15	121.2	5.94	25.49	357,602	5,614,237
8	Blur-8	3,047	0.30	0.12	1,426	0.14	126.9	6	26.15	357,612	5,614,254
9	Blur-9	2,551	0.26	0.1	909	0.09	109.6	5.52	25.02	357,627	5,614,234
10	Blur-10	2,601	0.26	0.05	1,446	0.14	111.1	5.9	26.17	357,731	5,614,228
11	Blur-11	2,544	0.25	NS	1,474	0.15	110.7	6.03	25.74	357,751	5,614,196
12	Blur-12	2,871	0.29	0.08	1,625	0.16	126.2	6.07	26.16	357,655	5,614,143
13	Blur-13	2,761	0.28	0.06	2,009	0.20	121.7	6.17	25.08	357,625	5,614,063
14	Blur-14	2,573	0.26	0.04	1,876	0.19	122.3	6.07	26.43	357,531	5,614,238
15	Blur-15	2,161	0.22	NS	817	0.08	96.7	5.16	24.84	357,560	5,614,258
16	Blur-16	1,954	0.20	NS	1,191	0.12	92.5	5.3	23.30	357,730	5,614,299
17	Blur-17	2,735	0.27	0.06	1,266	0.13	115.2	6.03	26.69	357,733	5,614,191

6.4 Petrographic Studies

Sample Blur-8 showed the highest initial 'total acid digestion' analysis for nickel (0.3% total Ni) and was the specimen used for petrographic studies by Vancouver Petrographics.

Petrographic work determined that pentlandite is associated in trace amounts (<0.01% visual) within magnetic pyrrhotite of a serpentinized lherzolite where anhedral coarse grained clinopyroxene and orthopyroxene host medium grained olivine. The sample is crosscut by a network of serpentine-rich veinlets.

The nickel is dominantly tied up in the crystal lattice of olivine and serpentine, which partially replaces olivine. Sulphide nickel ranges 0.06-0.12% Ni (600-1200ppm Ni) and silicate nickel is approximately 0.14 to 0.2% Ni.

Photo 6. Sample Blur 8 - Reflected light showing magnetite (mt), pyrrhotite (po) and pentlandite (pn) in serpentinized lherzolite. (after Vancouver Petrographic Report - 2013)

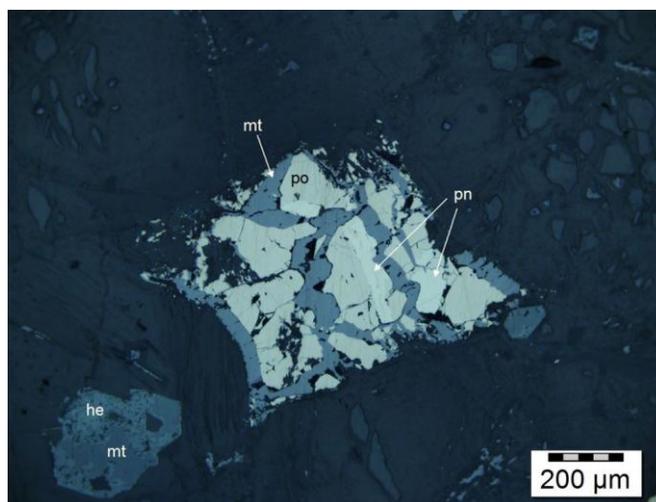
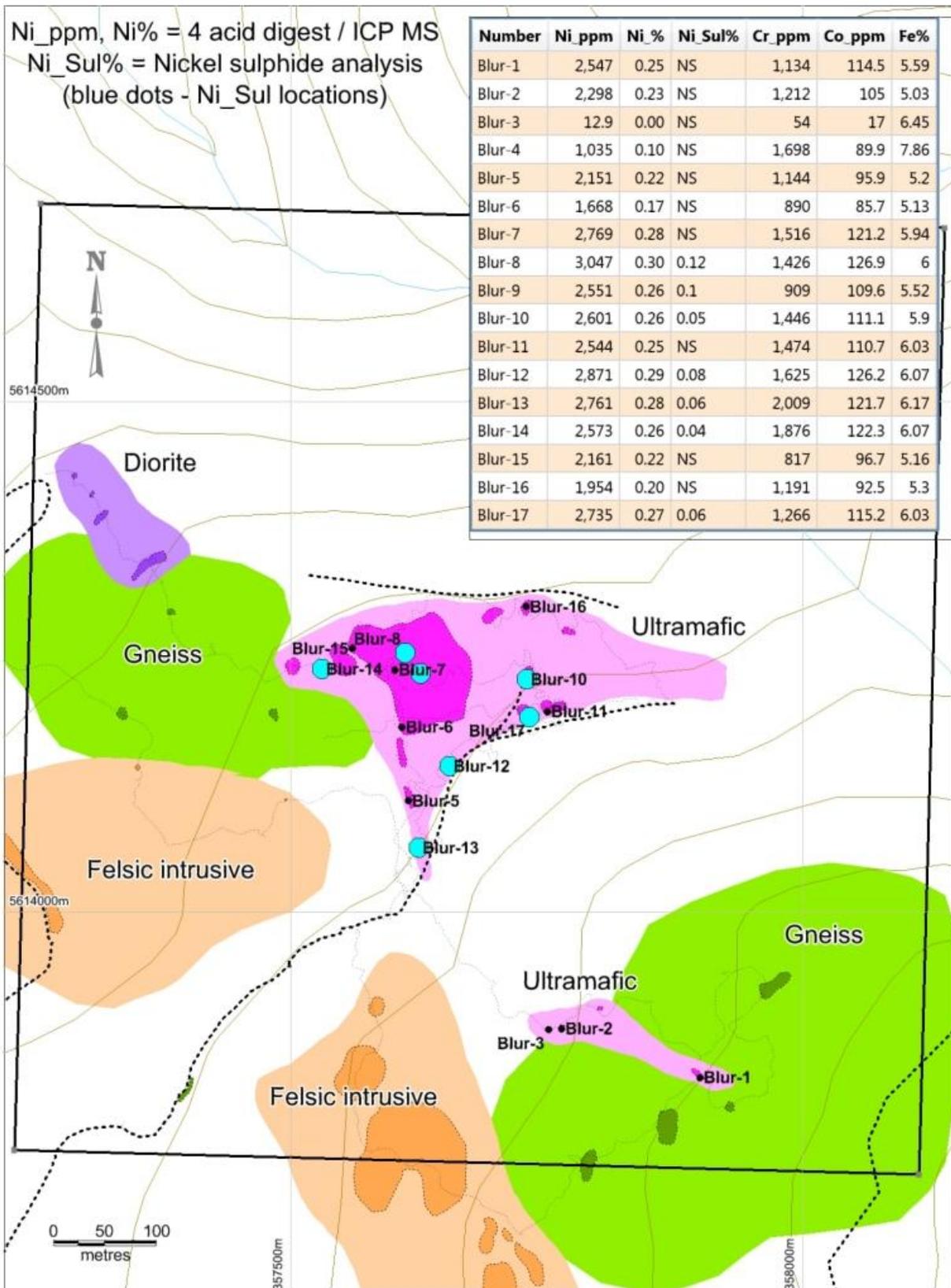


Figure 2 Blurton Claim - Rock sample location and general geology



7. CONCLUSIONS

Results show that 15% - 40% of the total nickel in the rock is related to the sulphide minerals pentlandite and nickel rich pyrrhotite. Concentrations range from 0.06-0.12% Ni (600-1200ppm Ni).

It was encouraging that some areas in the centre of the ultramafic outcrop containing higher visual sulphide (>2% pyrrhotite) show higher nickel assays. This may suggest that an increased concentration of pyrrhotite seen elsewhere in the ultramafic could be directly related to higher nickel grades on surface and possibly with depth.

At these nickel grades (Table 2) the Blurton Property remains a property of interest until either a higher percentage of sulphide nickel is located within the property or the extraction of nickel from silicate minerals is perfected economically.

8. REFERENCES

Arcott, D., 1969. Geological and Geochemical Examination of the Zett, Eagle and Jay Claim Groups. For A. Beaudoin and Associates. Assessment Report #2510.

McCance, J.A and D.B. Petersen, 1978. Cuzin Option. Geology, Geochemistry, Geophysics, and Diamond Drilling - 1977. Rio Tinto Canadian Exploration Ltd. Assessment Report #6677.

9. EXPENDITURES

• 4 field days with truck rental at 900/day, J. Cuttle	3600.00
• Truck gas and food and sampling supplies	400.00
• 17 rock samples - Acme labs (file VAN13001928, ICP MS analysis)	523.47
• 7 rock samples - Acme labs (file VAN13001928, Sulphide nickel extract)	340.00
• Petrographic analysis - Vancouver Petrographics Inv # 130512	307.65
• 1 day report writing, J. Cuttle	800.00
Total	5971.12

APPENDIX I

Petrographic Report - Image analysis of Pentlandite of Sample "Blur-8"



Vancouver Petrographics Ltd.

8080 GLOVER ROAD, LANGLEY, B.C. V1M 3S3
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Website: www.vanpetro.com

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Sent to: Jim Cuttle, P.Geo.
jcuttle@blacktusk.org

Report 130512

Reviewed Version Aug 2, 2013

Petrography and Image Analysis of Pentlandite of Sample Blur 8

Fabrizio Colombo, Ph.D., P.Geo.
fab.petrologic@gmail.com
www.petrographically.com

Summary

One sample (Blur 8) was submitted for petrographic analysis.

Sample Blur 8 is a **serpentinized Iherzolite**. Anhedral coarse-grained clinopyroxene and orthopyroxene host medium-grained olivine. The sample is crosscut by a network of serpentinite-rich replacement veinlets. Magnetite is spatially associated with the serpentinite alteration. Rare pyrrhotite hosts very rare (~0.01%) pentlandite (see Photomicrograph 1).

The distribution of the pyrrhotite-pentlandite intergrowths is heterogeneous within the polished thin section. The pyrrhotite-pentlandite intergrowths are partially replaced by magnetite, which I interpret as being associated with the serpentinization.

The magnetic susceptibility of the sample is 12.2. The magnetic susceptibility of the sample offcut was measured with a hand-held KT Magnetic Susceptibility Meter, and is intended to provide only an approximate estimate of the relative content of magnetic minerals (in this case magnetite and subordinate pyrrhotite) within the sample.

The client provided a certificate of analysis for Sample Blur 8, which reports **3,047 ppm Ni**, and asked for a determination of the nickel-bearing minerals in this sample. Under the microscope, pentlandite, and probably pyrrhotite, are the only two nickel-bearing minerals. Pentlandite—**(Fe,Ni)₉S₈**—contains a theoretical 34.22% Ni; however, the content by analysis varies from 10% to 40% Ni. The pyrrhotite—**Fe_{1-x}S**—can contain small quantities of nickel (1%–13%, after Ramdohr 1980). Small amounts of cobalt replace iron in both the pentlandite and pyrrhotite. The area of the pentlandite particles was measured by digital image analysis and resulted in a total of **0.0852 mm²**. The method used for this calculation is summarized in the next paragraph. If we assume an average nickel content of 30% within the pentlandite and we assume that this polished thin section is representative of the sample submitted for geochemical analysis, the pentlandite content (0.01%) is not sufficient to justify the presence of 3,047 ppm Ni.

In order to determine the nickel content of the pentlandite, pyrrhotite, and of the silicate (mostly olivine and serpentinite) electron optic analysis (i.e., Scanning Electron Microscope equipped with Energy Dispersive Spectroscopy) is recommended.

Summary of Methods

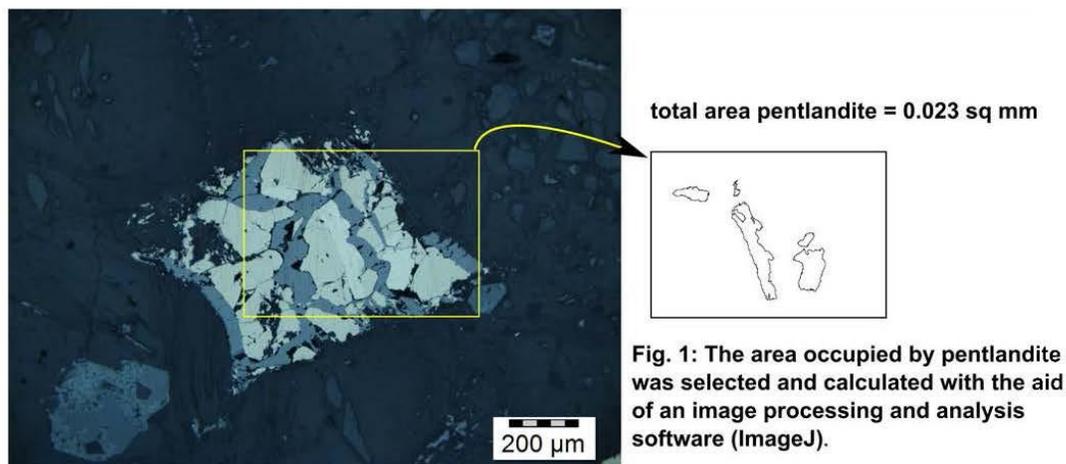
The amount of pentlandite was calculated on a polished thin section (30 μm) prepared by Vancouver Petrographics Ltd.

The mineralogic and microstructural features of the sample were analyzed with a petrographic microscope (Olympus BX41) in transmitted and reflected polarized light. The detailed petrographic description is attached below.

All the pyrrhotite-pentlandite intergrowths were captured by digital images (attached in a separate folder “photomicrographs”) and the particles of pentlandite were measured.

The particles of pentlandite were selected by image processing and analysis software (ImageJ). The reflectance of pentlandite (~49.5) is higher than that of pyrrhotite (~37.4), magnetite, or hematite (see Photomicrograph 1), and this results in a higher brightness that

can be used to find the particles of pentlandite (e.g., Figure 1) and calculate their area. The results of the calculation are listed in the Excel file "ResultsPn.xls" and summarized in "SummaryPn.xls." These data are provided within the folder "Image Processing."



The iterated calculation of the area of all the pentlandite detected under the microscope resulted in 836 mm², therefore the pentlandite occupies 0.01% of the polished thin section.

Selected Bibliography

Gillespie, M.R., and Styles, M.T, 1999, British Geological Survey Rock Classification Scheme Volume 2 Classification of igneous rocks: British Geological Survey Research Report (2nd edition), RR/99-06, 52 p.

Higgins, M.D., Quantitative Textural Measurements in Igneous and Metamorphic Petrology. Cambridge University Press, 276 pp.

Ramdohr, P., 1980, The Ore Minerals and their Intergrowths, 2nd edition, Vol. 1 and 2: Pergamon Press, 1207 p.

Tröger, W.E., 1979, Optical Determination of Rock-Forming Minerals. Part 1, Determinative Tables: E. Schweizerbart'sche Verlagsbuchhandlung (Nägele u. Obermiller), 188 p.

Signed by

F. Colombo, Ph.D., P.Geo.

E-mail: fab.petrologic@gmail.com

Web: petrographically.com

Petrographic Description

Sample: *Blur 8*

Altered (serpentinite-magnetite) Iherzolite¹

Coarse-grained interlobate crystals of clinopyroxene and orthopyroxene are intergrown and host medium-grained anhedral inclusions of olivine. The sample is crosscut and partially replaced by an irregular network of fibrous serpentinite (chrysotile). Fine-grained magnetite preferentially occupies the median zone of the serpentinite-rich replacements. Hematite partially replaces the magnetite. Within the serpentinite, rare pyrrhotite is fractured and filled in by magnetite and is intergrown with subordinate pentlandite.



<i>Mineral</i>	<i>Modal %</i>	<i>Main Size Range (mm)</i>
clinopyroxene	45 – 47	up to 10
orthopyroxene	35 – 38	up to 5
olivine	8 – 10	up to 1.5
serpentinite	7 – 9	up to 0.1
magnetite	1.5 – 2	up to 0.1
hematite	1	up to 0.05
pyrrhotite	0.1	up to 0.25
pentlandite	0.01	up to 0.1

Clinopyroxene forms inequigranular (up to 10 mm) anhedral to skeletal crystals. The clinopyroxene shows a curved and irregular boundary at the contact with orthopyroxene and hosts sub-rounded to interlobate inclusions of olivine.

Orthopyroxene is subordinate to the vinyl pyroxene and forms anhedral crystals (up to 5 mm) that are intergrown with the clinopyroxene and, as the clinopyroxene, hosts anhedral inclusions of olivine. The orthopyroxene is distinguished by its high relief, perpendicular sets of cleavages, straight extinction, and birefringence colours up to first-order yellow.

Olivine occurs as medium-grained (up to 1.5 mm) anhedral to interlobate crystals enclosed within the pyroxenes. The olivine is preferentially replaced by an irregular network of serpentinite veinlets. The olivine shows high relief and high birefringence colours (third-order orange), and it is characterized by the absence of well-developed cleavage.

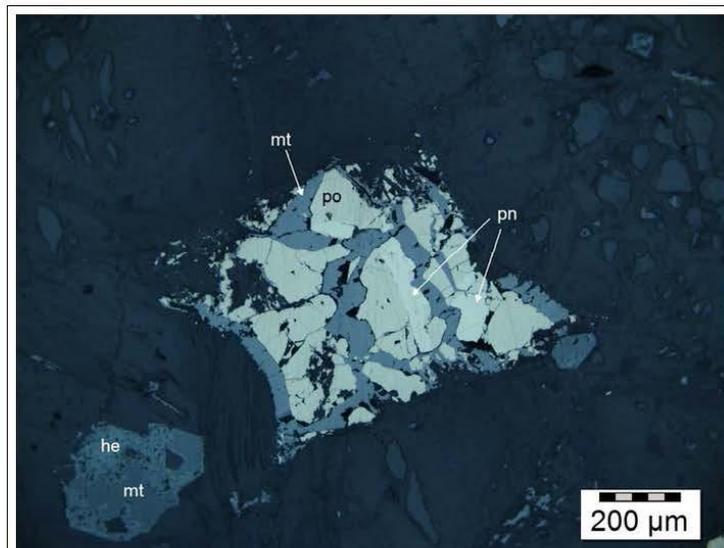
Serpentinite (chrysotile) forms fine- to very fine-grained fibres (up to 0.1 mm long). The

¹ Rock classification after Gillespie and Styles 1999.

chrysotile fibres are oriented perpendicular to the veinlet walls. The chrysotile is distinguished by its low relief, straight extinction, and positive elongation.

Magnetite is fine grained and anhedral. It is preferentially dispersed within the median zone of the chrysotile-rich replacement domains. The magnetite overprinted and partially replaced rare pyrrhotite, and is partially replaced by fine- to very fine-grained **hematite**.

Pyrrhotite occurs as anhedral crystals that are heterogeneously distributed within the polished thin section. A total of 22 fractured crystals are observed within the chrysotile-rich replacement veinlets in the upper part of the thin section. The pyrrhotite hosts subordinate exsolutions and/or partial replacements of **pentlandite** (Photomicrograph 1). The pyrrhotite-pentlandite intergrowths are crosscut and partially replaced by magnetite.



Photomicrograph 1: Fine-grained particles of pentlandite (pn) are intergrown within the pyrrhotite (po). The pyrrhotite is partially replaced by magnetite (mt), which is partially replaced by hematite (he) in the lower left part of the photomicrograph. Plane-polarized reflected light.

APPENDIX II

Geochemical Analysis - Rock Samples (ICP/MS and Ni sulphide extraction)



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
 PHONE (604) 253-3158

Client: Landmark Geological Inc.
 86 Cloudburst Road
 Whistler BC V0N 1B1 Canada

Submitted By: Jim Cuttle
 Receiving Lab: Canada-Vancouver
 Received: June 07, 2013
 Report Date: June 17, 2013
 Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN13001928.1

CLIENT JOB INFORMATION

Project: Blurton
 Shipment ID:
 P.O. Number
 Number of Samples: 17

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	17	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1EX	17	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
 PICKUP-RJT Client to Pickup Rejects

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Landmark Geological Inc.
 86 Cloudburst Road
 Whistler BC V0N 1B1
 Canada

CC:



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Acme Analytical Laboratories (Vancouver) Ltd.
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
 PHONE (604) 253-3158

Client: Landmark Geological Inc.
 86 Cloudburst Road
 Whistler BC V0N 1B1 Canada

Project: Blurton
Report Date: June 17, 2013

Page: 2 of 2

Part: 1 of 1

CERTIFICATE OF ANALYSIS **VAN13001928.1**

Method	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
Blur-1	Rock	0.90	<0.1	4.1	0.8	44	0.2	2547	114.5	900	5.59	<1	<0.1	<0.1	<0.1	<1	0.1	0.1	<0.1	21	0.09
Blur-2	Rock	0.96	<0.1	5.1	0.5	36	<0.1	2298	105.0	847	5.03	3	<0.1	<0.1	<0.1	2	<0.1	<0.1	<0.1	22	0.03
Blur-3	Rock	0.62	<0.1	21.2	20.7	103	<0.1	12.9	17.0	1307	6.45	1	1.0	<0.1	1.8	755	<0.1	<0.1	0.4	214	4.47
Blur-4	Rock	0.70	0.4	78.2	2.5	86	<0.1	1036	89.9	1630	7.86	2	0.2	<0.1	0.5	93	0.2	0.1	0.2	155	4.88
Blur-5	Rock	1.20	<0.1	7.3	0.7	47	0.2	2151	95.9	874	5.20	1	<0.1	<0.1	<0.1	8	0.1	<0.1	<0.1	28	0.22
Blur-6	Rock	1.07	0.3	8.6	1.2	41	0.2	1668	85.7	1009	5.13	<1	0.2	<0.1	0.4	107	0.1	<0.1	0.2	81	1.77
Blur-7	Rock	1.21	<0.1	5.7	0.7	39	0.1	2769	121.2	879	5.94	1	<0.1	<0.1	<0.1	28	0.2	<0.1	0.3	31	0.90
Blur-8	Rock	1.14	<0.1	8.6	0.4	46	0.1	3047	126.9	934	6.00	1	<0.1	<0.1	<0.1	<1	<0.1	<0.1	0.2	18	0.05
Blur-9	Rock	1.00	0.1	6.7	0.5	39	0.1	2551	109.6	918	5.52	1	<0.1	<0.1	<0.1	4	<0.1	<0.1	0.2	22	0.12
Blur-10	Rock	0.81	<0.1	5.8	0.7	50	0.2	2601	111.1	940	5.90	<1	<0.1	<0.1	<0.1	4	0.1	<0.1	0.1	26	0.07
Blur-11	Rock	1.17	<0.1	5.0	0.4	38	0.1	2544	110.7	918	6.03	2	<0.1	<0.1	<0.1	1	<0.1	<0.1	<0.1	28	0.02
Blur-12	Rock	1.42	0.7	6.4	0.5	47	<0.1	2871	126.2	877	6.07	2	<0.1	<0.1	<0.1	12	0.2	<0.1	0.2	26	0.36
Blur-13	Rock	0.60	0.4	5.3	0.5	66	0.2	2761	121.7	922	6.17	1	0.3	<0.1	<0.1	15	0.2	<0.1	0.2	35	0.28
Blur-14	Rock	1.27	<0.1	8.0	0.8	56	0.2	2573	122.3	918	6.07	1	<0.1	<0.1	<0.1	40	0.1	<0.1	0.2	43	0.84
Blur-15	Rock	0.66	<0.1	4.2	0.9	39	0.2	2161	96.7	886	5.16	<1	<0.1	<0.1	<0.1	4	0.1	<0.1	<0.1	21	0.10
Blur-16	Rock	0.92	<0.1	5.8	0.7	39	0.2	1954	92.5	1067	5.30	<1	<0.1	<0.1	<0.1	2	0.2	<0.1	0.1	24	0.09
Blur-17	Rock	0.86	<0.1	5.8	1.0	51	0.2	2735	115.2	901	6.03	<1	<0.1	<0.1	<0.1	1	<0.1	<0.1	0.3	21	0.02

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 PHONE (604) 253-3158

Client: **Landmark Geological Inc.**
 86 Cloudburst Road
 Whistler BC V0N 1B1 Canada

Project: Blurton
 Report Date: June 17, 2013

Page: 2 of 2 Part: 2 of 1

CERTIFICATE OF ANALYSIS **VAN13001928.1**

Method	Analyte	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	1	1	0.1	0.1	
Blur-1	Rock	<0.001	0.2	1134	26.24	8	0.008	0.35	0.026	0.05	0.4	0.3	<1	<0.1	0.4	0.2	<0.1	<1	6	5.8	<0.1
Blur-2	Rock	0.001	<0.1	1212	25.87	2	0.007	0.39	0.004	<0.01	0.3	0.1	<1	<0.1	0.3	<0.1	<0.1	<1	7	3.9	<0.1
Blur-3	Rock	0.044	7.8	54	2.70	610	0.463	8.02	3.819	1.42	0.1	12.9	19	2.3	18.6	10.7	0.4	2	34	3.3	0.6
Blur-4	Rock	0.030	5.5	1698	13.48	120	0.325	3.95	0.858	0.59	0.2	16.5	12	1.2	9.8	2.7	0.1	<1	20	11.6	0.3
Blur-5	Rock	0.005	0.1	1144	23.25	11	0.006	0.38	0.024	0.01	0.2	0.2	<1	0.3	0.3	0.1	<0.1	<1	7	5.8	<0.1
Blur-6	Rock	0.006	1.7	890	21.96	9	0.061	1.58	0.235	0.19	0.1	6.6	5	2.8	5.5	1.1	<0.1	1	15	12.6	<0.1
Blur-7	Rock	0.003	0.5	1516	25.49	3	0.008	0.35	0.052	0.02	1.2	0.5	<1	1.0	0.3	0.3	<0.1	<1	7	3.9	<0.1
Blur-8	Rock	<0.001	<0.1	1426	26.15	2	0.003	0.24	0.005	<0.01	0.2	0.1	<1	<0.1	0.1	<0.1	<0.1	<1	4	3.9	<0.1
Blur-9	Rock	<0.001	<0.1	909	25.02	4	0.005	0.37	0.017	0.08	0.3	0.2	<1	<0.1	0.3	0.1	<0.1	<1	6	5.9	<0.1
Blur-10	Rock	0.005	<0.1	1446	26.17	8	0.004	0.29	0.012	0.03	0.3	0.2	<1	<0.1	0.2	<0.1	<0.1	<1	7	4.2	<0.1
Blur-11	Rock	0.003	<0.1	1474	25.74	2	0.004	0.31	0.001	<0.01	0.3	0.1	<1	<0.1	0.1	<0.1	<0.1	<1	8	3.4	<0.1
Blur-12	Rock	0.003	0.2	1625	26.16	5	0.005	0.30	0.029	<0.01	0.3	0.5	<1	0.4	0.2	0.2	<0.1	<1	5	3.7	<0.1
Blur-13	Rock	0.008	1.2	2009	25.08	12	0.007	0.47	0.027	0.03	0.6	1.2	2	0.4	2.2	0.2	<0.1	<1	9	3.9	<0.1
Blur-14	Rock	0.004	0.5	1876	26.43	4	0.016	0.59	0.083	0.05	0.2	1.9	1	1.1	1.1	0.5	<0.1	<1	7	4.2	<0.1
Blur-15	Rock	<0.001	<0.1	817	24.84	6	0.007	0.44	0.024	0.14	0.3	0.3	<1	<0.1	0.3	0.1	<0.1	<1	11	9.3	<0.1
Blur-16	Rock	0.003	<0.1	1191	23.30	6	0.007	0.35	0.006	<0.01	0.2	0.1	<1	<0.1	0.2	<0.1	<0.1	<1	5	5.1	<0.1
Blur-17	Rock	0.003	<0.1	1266	26.69	5	0.002	0.25	0.008	0.03	0.3	<0.1	<1	<0.1	0.2	<0.1	<0.1	<1	6	3.9	<0.1

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 86 Cloudburst Road
 Whistler BC V0N 1B1 Canada

Project: Blurton
Report Date: June 17, 2013

Page: 2 of 2

Part: 3 of 1

CERTIFICATE OF ANALYSIS

VAN13001928.1

Method	Analyte	1EX	1EX	1EX	1EX	1EX	1EX	1EX
		Rb	Hf	In	Re	Se	Te	Tl
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.1	0.1	0.05	0.005	1	0.5	0.5
Blur-1	Rock	2.8	<0.1	<0.05	<0.005	<1	6.4	<0.5
Blur-2	Rock	0.4	<0.1	<0.05	<0.005	<1	7.9	<0.5
Blur-3	Rock	34.1	0.8	0.07	<0.005	1	<0.5	<0.5
Blur-4	Rock	19.8	0.6	<0.05	<0.005	<1	2.5	<0.5
Blur-5	Rock	1.0	<0.1	<0.05	<0.005	<1	6.1	<0.5
Blur-6	Rock	11.7	0.3	<0.05	<0.005	<1	8.7	<0.5
Blur-7	Rock	0.4	<0.1	<0.05	<0.005	<1	5.4	<0.5
Blur-8	Rock	0.5	<0.1	<0.05	<0.005	<1	5.7	<0.5
Blur-9	Rock	5.5	<0.1	<0.05	<0.005	<1	2.3	<0.5
Blur-10	Rock	2.1	<0.1	<0.05	<0.005	<1	4.9	<0.5
Blur-11	Rock	0.2	<0.1	<0.05	<0.005	<1	7.5	<0.5
Blur-12	Rock	0.4	<0.1	<0.05	<0.005	<1	6.2	<0.5
Blur-13	Rock	1.7	<0.1	<0.05	<0.005	<1	4.1	<0.5
Blur-14	Rock	1.8	<0.1	<0.05	<0.005	<1	8.1	<0.5
Blur-15	Rock	10.5	<0.1	<0.05	<0.005	<1	6.9	<0.5
Blur-16	Rock	0.7	<0.1	<0.05	<0.005	<1	5.6	<0.5
Blur-17	Rock	1.9	<0.1	<0.05	<0.005	<1	8.5	<0.5

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Client: Landmark Geological Inc.
 86 Cloudburst Road
 Whistler BC V0N 1B1 Canada

Project: Blurton
Report Date: June 17, 2013

Page: 1 of 1 Part: 1 of 1

QUALITY CONTROL REPORT **VAN13001928.1**

Method	WGHT	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	
Pulp Duplicates																					
Blur-11	Rock	1.17	<0.1	5.0	0.4	38	0.1	2544	110.7	918	6.03	2	<0.1	<0.1	<0.1	1	<0.1	<0.1	<0.1	28	0.02
REP Blur-11	QC		<0.1	5.2	0.4	37	0.1	2541	110.5	919	6.00	2	<0.1	<0.1	<0.1	1	<0.1	<0.1	<0.1	26	0.02
Reference Materials																					
STD OREAS24P	Standard		1.3	49.6	3.1	116	<0.1	138.4	43.0	1090	7.57	2	0.7	<0.1	3.2	376	0.1	0.1	<0.1	169	5.76
STD OREAS45E	Standard		2.3	798.6	20.8	46	0.4	480.1	60.2	571	25.92	18	2.5	<0.1	13.4	17	<0.1	1.0	0.3	334	0.06
STD OREAS24P Expected			1.5	52	2.9	119	0.06	141	44	1100	7.53	1.2	0.75		2.85	403	0.15	0.09		158	5.83
STD OREAS45E Expected			2.4	780	18.2	46.7	0.311	454	57	550	24.12	16.3	2.41	0.05	12.9	15.9	0.06	1	0.28	322	0.065
BLK	Blank		<0.1	<0.1	0.2	<1	<0.1	0.7	<0.2	1	<0.01	<1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<1	<0.01
Prep Wash																					
G1	Prep Blank		0.3	8.9	23.9	55	<0.1	4.0	5.0	784	2.31	1	2.6	<0.1	10.0	720	<0.1	0.2	0.1	51	2.44
G1	Prep Blank		0.2	6.6	23.6	54	<0.1	3.3	4.8	754	2.31	1	2.6	<0.1	9.1	693	<0.1	0.2	0.1	51	2.31

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Client: Landmark Geological Inc.
 86 Cloudburst Road
 Whistler BC V0N 1B1 Canada

Project: Blurton
Report Date: June 17, 2013

Page: 1 of 1

Part: 2 of 1

QUALITY CONTROL REPORT

VAN13001928.1

Method	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	
Pulp Duplicates																					
Blur-11	Rock	0.003	<0.1	1474	25.74	2	0.004	0.31	0.001	<0.01	0.3	0.1	<1	<0.1	0.1	<0.1	<0.1	<1	8	3.4	<0.1
REP Blur-11	QC	0.004	<0.1	1492	26.08	2	0.003	0.32	0.001	<0.01	0.3	<0.1	<1	<0.1	0.1	<0.1	<0.1	<1	8	3.8	<0.1
Reference Materials																					
STD OREAS24P	Standard	0.133	19.0	202	4.00	284	1.008	7.76	2.499	0.65	0.4	132.3	38	1.5	23.2	18.2	1.1	1	20	8.2	<0.1
STD OREAS45E	Standard	0.034	8.0	932	0.17	253	0.531	6.63	0.057	0.33	1.0	99.0	19	1.2	7.2	6.2	0.5	<1	94	6.6	<0.1
STD OREAS24P Expected		0.136	17.4	196	4.13	285	1.1	7.66	2.34	0.7	0.5	141	37.6	1.6	21.3	21	1.04		20	8.7	
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	110	23.5	1.32	8.28	6.8	0.56		93	6.58	0.046
BLK	Blank	<0.001	<0.1	4	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.1	<0.1
Prep Wash																					
G1	Prep Blank	0.076	28.6	7	0.58	1059	0.272	7.36	2.830	3.31	0.1	11.7	58	1.8	15.8	25.7	1.4	3	5	39.7	<0.1
G1	Prep Blank	0.075	24.5	7	0.57	1069	0.265	7.03	2.787	3.35	0.1	11.3	53	1.7	14.6	25.1	1.3	3	5	38.2	<0.1

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Client: Landmark Geological Inc.
 86 Cloudburst Road
 Whistler BC V0N 1B1 Canada

Project: Blurton
Report Date: June 17, 2013

Page: 1 of 1

Part: 3 of 1

QUALITY CONTROL REPORT VAN13001928.1

Method	1EX	1EX	1EX	1EX	1EX	1EX	1EX	
Analyte	Rb	Hf	In	Re	Se	Te	Tl	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	
Pulp Duplicates								
Blur-11	Rock	0.2	<0.1	<0.05	<0.005	<1	7.5	<0.5
REP Blur-11	QC	0.2	<0.1	<0.05	<0.005	<1	4.5	<0.5
Reference Materials								
STD OREAS24P	Standard	20.7	3.5	0.08	<0.005	<1	1.1	<0.5
STD OREAS45E	Standard	19.2	2.9	0.11	<0.005	3	<0.5	<0.5
STD OREAS24P Expected		22.4	3.6					
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
Prep Wash								
G1	Prep Blank	125.3	0.6	<0.05	<0.005	<1	<0.5	1.0
G1	Prep Blank	122.7	0.7	<0.05	<0.005	<1	<0.5	1.0

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Client: Landmark Geological Inc.
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 Whistler BC V0N 1B1 Canada

Submitted By: Jim Cuttle
 Receiving Lab: Canada-Vancouver
 Received: August 13, 2013
 Report Date: August 15, 2013
 Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN13001928R.1

CLIENT JOB INFORMATION

Project: Blurton
 Shipment ID:
 P.O. Number
 Number of Samples: 7

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
G810	7	Sulphide Ni Extraction	1	Completed	VAN

SAMPLE DISPOSAL

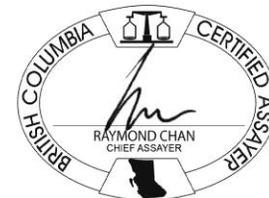
PICKUP-PLP Client to Pickup Pulps
 Client to Pickup Rejects

ADDITIONAL COMMENTS

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Landmark Geological Inc.
 86 Cloudburst Road
 Whistler BC V0N 1B1
 Canada

CC: Glen Dickson



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. ** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



www.acmelab.com

Acme Analytical Laboratories (Vancouver) Ltd.
 9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
 PHONE (604) 253-3158

Client: **Landmark Geological Inc.**
 86 Cloudburst Road
 Whistler BC V0N 1B1 Canada

Project: Blurton
Report Date: August 15, 2013

Page: 2 of 2

Part: 1 of 1

CERTIFICATE OF ANALYSIS

VAN13001928R.1

	Method	8NIS
	Analyte	Ni/S
	Unit	%
	MDL	0.01
Blur-8	Rock	0.12
Blur-9	Rock	0.10
Blur-10	Rock	0.05
Blur-12	Rock	0.08
Blur-13	Rock	0.06
Blur-14	Rock	0.04
Blur-17	Rock	0.06

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Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

VAN13001928R.1

	Method	8NiS
	Analyte	Ni/S
	Unit	%
	MDL	0.01
Pulp Duplicates		
Blur-17	Rock	0.06
REP Blur-17	QC	0.07
Reference Materials		
STD UM-4	Standard	0.18
STD UM-4	Standard	0.18
STD UM-4 Expected		0.18
BLK	Blank	<0.01

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