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257387

2016 Canyon Claim Group Prospecting Report

GARRISON TOWNSHIP
LARDER LAKE MINING DIVISION

December 22, 2016



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1 Introduction

This prospecting report has been prepared by Osisko Mining Inc. to document a geologic sampling program undertaken from June-October 2016, on their Canyon Claim Group property. This work program involved sampling rock units that fall within Osisko Mining Inc.'s six Canyon Claim Groups listed below. The work program started on May 12, 2016 and was completed on October 22, 2016. A total of 32 grab samples were collected during the program.

1. 4275124 (2 claim units)
2. 4275496 (1 claim unit)
3. 4275127 (3 claim units)
4. 4275128 (2 claim units)
5. 4275129 (2 claim units)
6. 4275126 (1 claim unit)

Property Location, Access and Description

The Canyon Claim Group property is a contiguous group of 6 unpatented mining claims in the Garrison and Thackeray Townships, Larder Lake Mining Division. The property measures 2120.73 hectares in size. It is located 40km east of Matheson, ON and is accessible by 2wd drive vehicle via gravel roads connecting to highway 101 then by ATV trail see **Figure 1**. The Property is situated within National Topographic System (NTS) map sheet 32/D12.

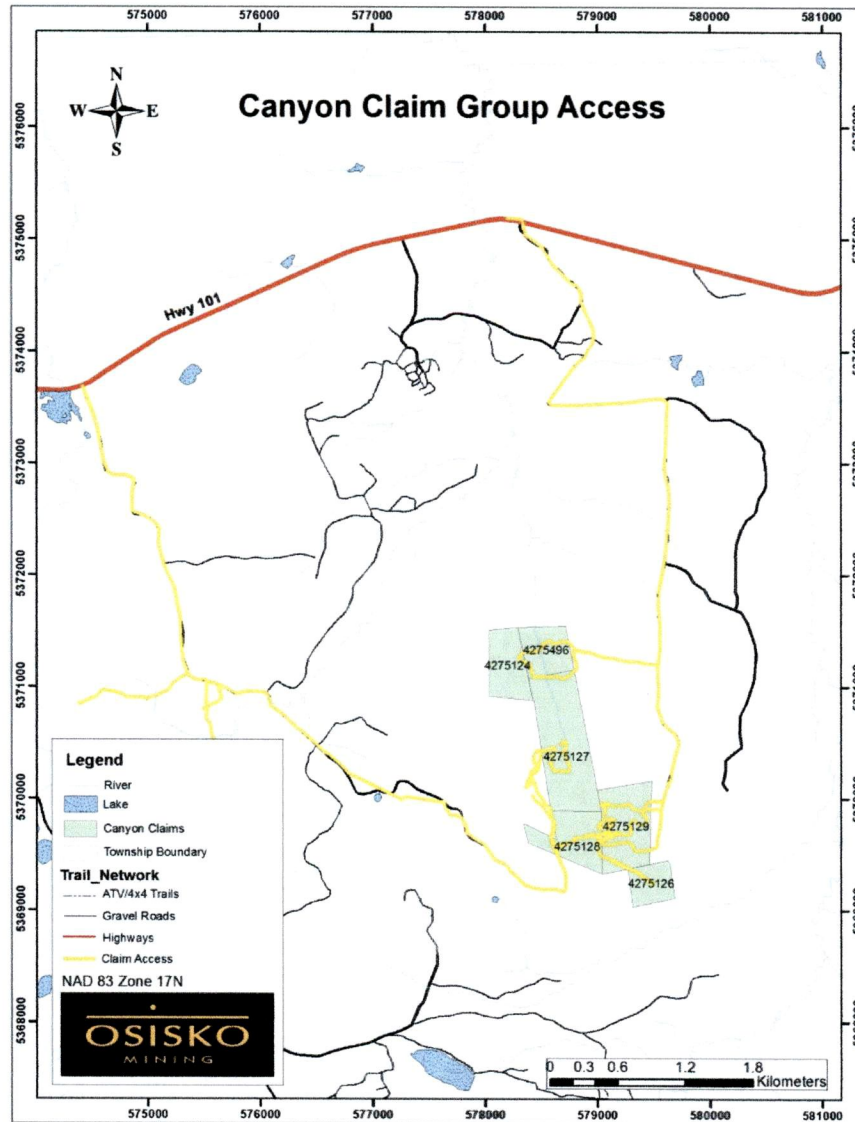


Figure 1: Canyon Claim Group Access Map

Land Tenure and Contiguity

Table 1: Claims covered by the Canyon Claim Group property

Claim Number	Township	Units	Hectares
4275124	GARRISON	2	20.10
4275496	GARRISON	1	16.04
4275127	GARRISON	3	52.61
4275128	GARRISON	2	24.24
4275129	GARRISON	2	33.23
4275126	GARRISON	1	13.08

2 Physiography

There is moderate topographic relief in the immediate area of the property. Property elevations range from 271 to 412 metres above sea level (ASL) with swamp and overburden covered areas between hummocks of clay rimmed outcrop. Jack pine and balsam grow on esker and sandy soil areas; wet areas are vegetated with spruce, cedar and tag alder. Bedrock exposure is generally good owing to the property being situated on higher ground; overall bedrock exposure is approximately 30% and overburden is typically < 5 metres thick.

3 Property History

1979-80 Falconbridge Nickel Mines Ltd.

Completed a ground Proton Magnetometer and VLF-EM Survey.

1983-84 Falconbridge Ltd.

Completed a Geology, Scintillometer and Rock Geochemistry Survey.

1984-85 Falconbridge Ltd.

Completed a DDH Program consisting of 3 holes totaling 2933 feet on what is now claims 4275128 and 4275129.

4 Regional Geology

The Garrison Township is located in the Archean Abitibi Greenstone (Volcanic) Belt. It is composed of Supergroups made up of metavolcanic and metasedimentary rocks as well as a variety of intrusives (**Figure 2**).

The Geology of Garrison Township was summarized by J. Satterly as follows:

The bed rock in Garrison Township is all of Precambrian age. The rocks are exposed in isolated areas, much of the township being drift- or swamp covered. Depths of drift from 100 to 300 feet are often encountered in drilling. The rocks exposed include early Precambrian sediments and volcanics, ultrabasic and basic dikes and sills of several ages, and granitic and related intrusives. As the contacts between the sediments and volcanics are drift-covered or faulted, the age relationships of these rocks are unknown. The terms Keewatin and Timiskaming, therefore, will not be used in this report, following practice previously adopted in the townships mapped to the west. The terms Haileyburian(?), Algoman (?), Matachewan (?), and Keweenawan (?) have been used because they designate certain lithological types and therefore convey to the reader more than if all the intrusives were grouped under one heading. This seems especially desirable because there are at least four ages of diabase. Much of the geology of the township, and particularly that within the Destor-Porcupine fault zone, is known only from diamond-drill cores.

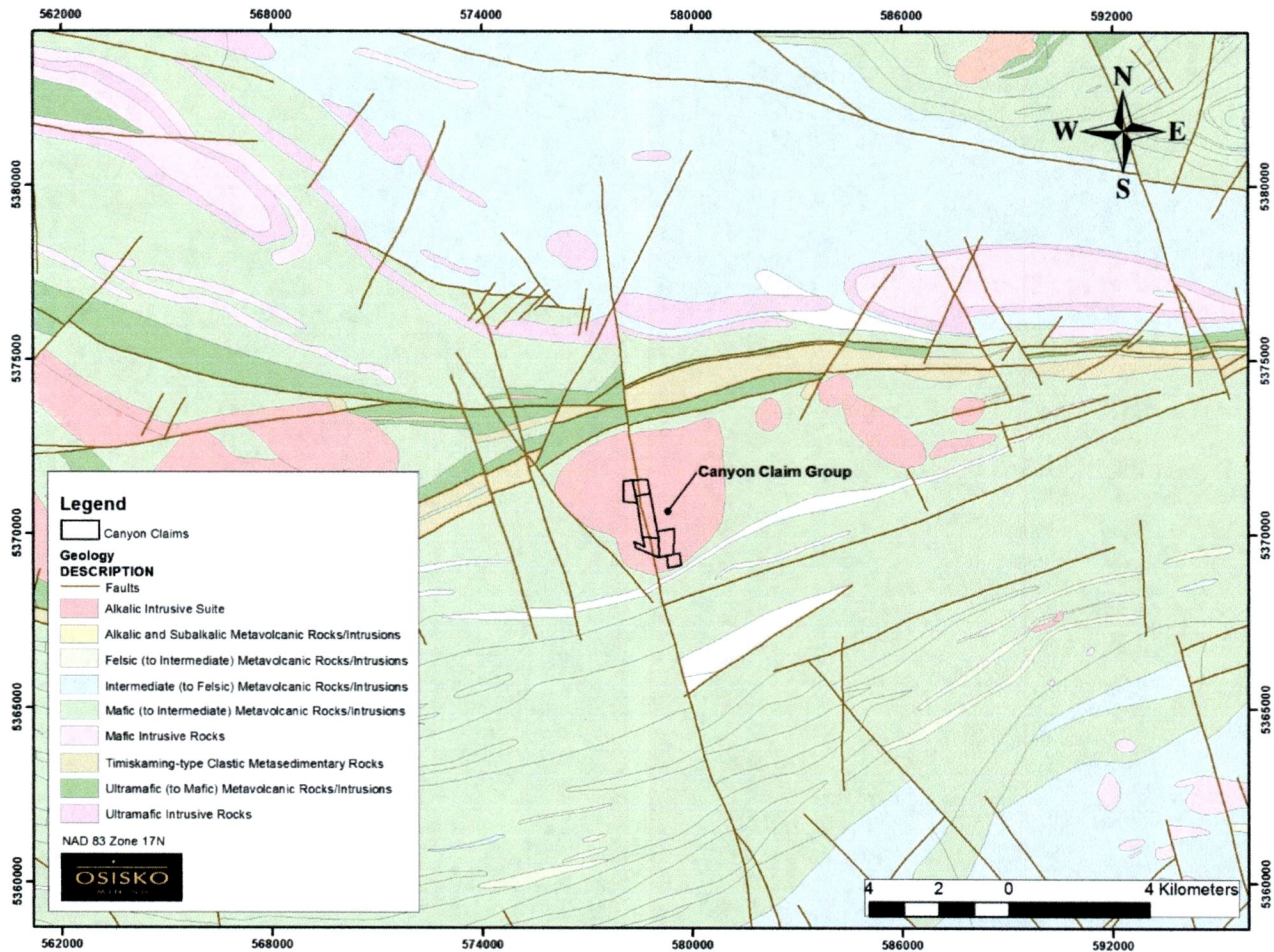


Figure 2: Regional Geology map with location of Canyon Claim Group

Geology of Canyon Area/ Property Geology

The “Canyon Claim Group” property is underlain entirely by granite (**Figure 3**), with the best outcrop exposures along sub vertical canyon walls, cutting N. 15° W, as well as outcrops along the south-western portion of the property.

The geology of the canyon is best described by J. Satterly, as follows:

The western portion of the canyon extending up the slope is an open cut, which exposes a quartz-vein over a length of 130 feet. The vein, which strikes N. 57° E, and dips 50° N., is 7 feet wide at the west end of the cut and 4 feet wide at the east end. It occupies a sheeted zone in the granite, and angular inclusions of slightly porphyritic granite mineralized with pyrite, occur sporadically in the vein material. Across the canyon, about 350 feet to the east, is the east showing. A small open cut in the canyon wall, about 30 feet above the floor and 20 feet below the apparent top, exposes a quartz vein, which is from 4 to 8 feet wide, dips 40° to 45° N., and is exposed for a dip length of 50 feet. The apparent strike of the vein is N. 65° to 70° E. The hanging wall is a 2-foot band of sheared and fractured metamorphosed basic lava in the granite. The east and west showings are believed to be on the same quartz vein. The present attitudes of the veins at the two showings can be explained by a fault in the canyon with either a horizontal movement of 100 feet or a vertical one of 70 feet.

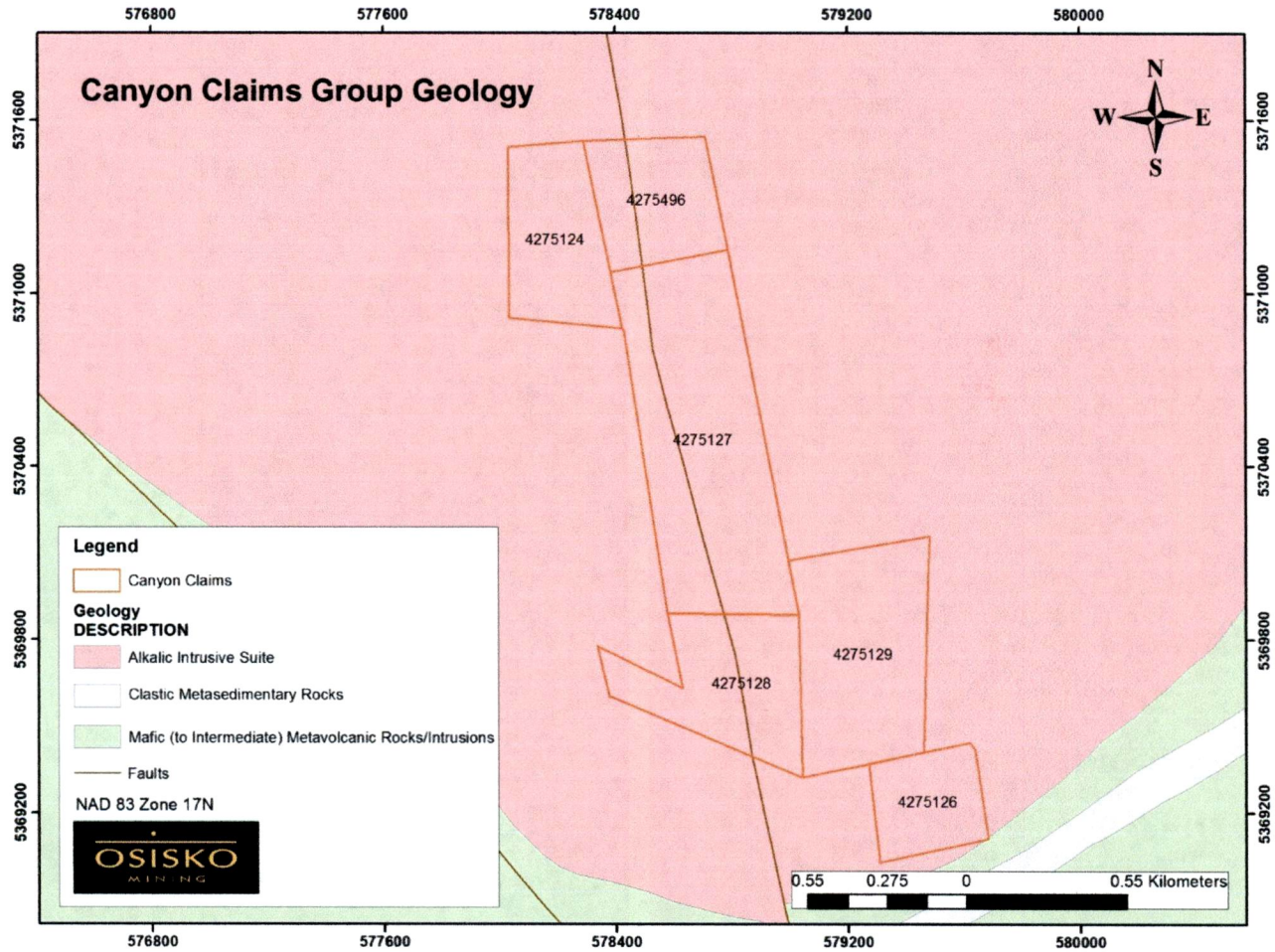


Figure 3: Map of Canyon Claim Group geology

4 Recent Work: Sampling of Canyon Area

A total of 32 grab samples were taken from exposed outcrops along traverse lines (**Figure 4**). Samples were sent to SGS Cochrane and Swaslabs for fire assay. Assay certs can be seen in the appendix of this report. Field parties included G.Matheson; D.Eves; B. Madill and M. Oliva. The samples are described in **Table 2**.

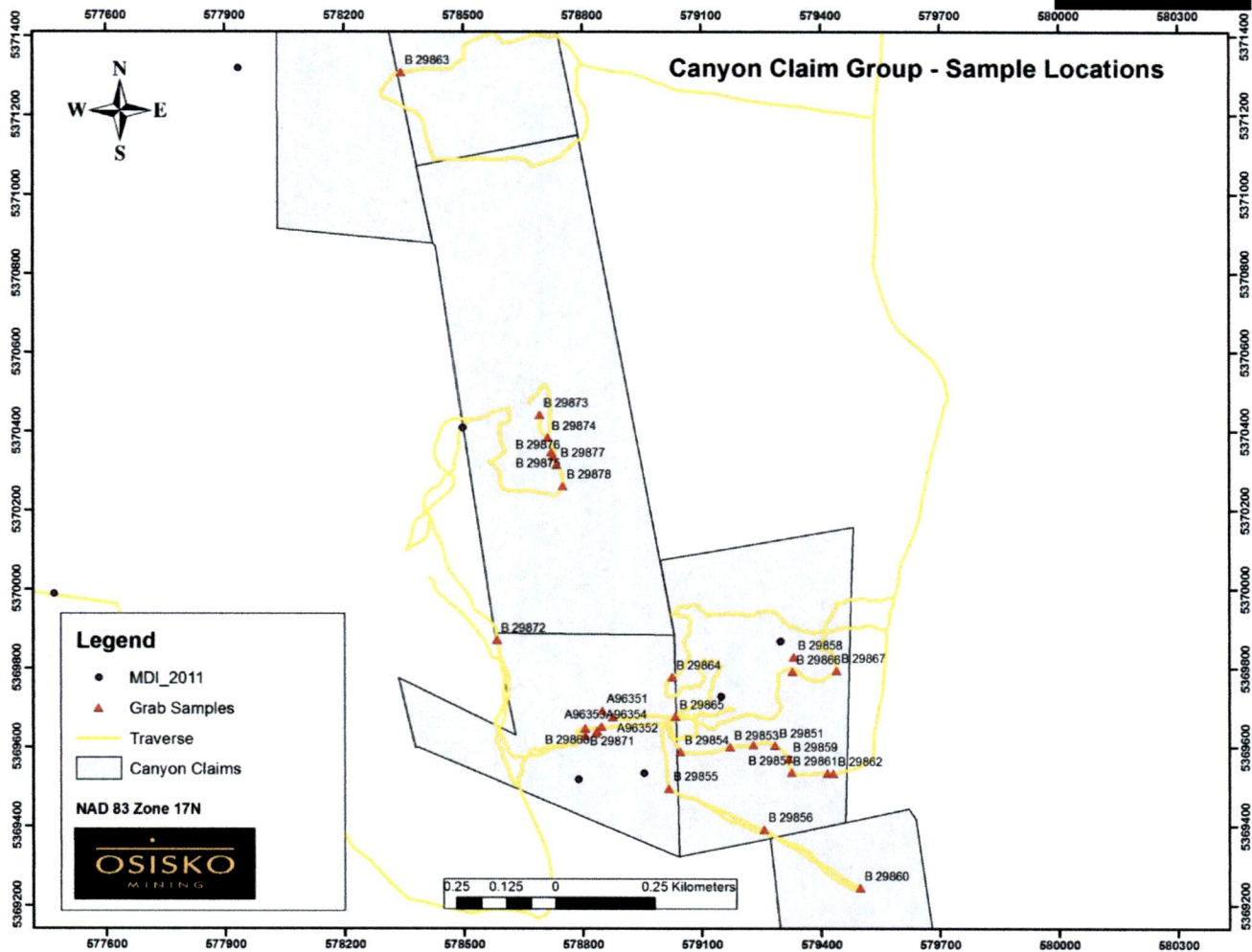


Figure 4: Map displaying the location of grab samples within the Canyon Claim Group

6 Discussions of Results/Recommendations

The results of the 2016 prospecting program did not locate any significant gold mineralization outside of the historic prospects on the property. Further work may need to be concentrated within the southernmost claim 4275126 to examine closer to the margins of the Garrison granitic stock where bedrock exposure is poor possibly through diamond drilling or geophysics.



7 Certificate of Author

I, Greg Matheson of the Town of Kirkland Lake, Ontario hereby certify:

- 1) I am a graduate of Brock University, St. Catharines, Ontario having received a B.SC (Honours) in Earth Sciences in 2008.
- 2) I have worked as a geologist for 9 years, predominantly in the Kirkland Lake mining camp.
- 3) I am employed as the project manager with Osisko Mining Inc.
- 4) I am a registered P.Ge with the Ontario Association of Professional Geoscientists.
- 5) I have made use of the records of the Ontario Geological Survey as well as field observations and personal knowledge of the area in the preparation of this report.

A handwritten signature in blue ink, appearing to read "G. Matheson", is written over a light blue horizontal line.

Greg Matheson

8 References

Satterly J. 1949. *Geology of Garrison Township*. Ontario Ministry of Mines.

9 Appendix

Certificate of analysis – CO1606633

Certificate of analysis – 16-613

7 References

Satterly J. 1949. *Geology of Garrison Township*. Ontario Ministry of Mines.

Table 2: Summary of grab sample field descriptions and final assay results

Sample ID	X-Coordinate	Y-Coordinate	Description	Cert #	Final Au (g/t)
B 29851	579285	5369605	Medium grained phaneritic tan-pink syenite; 20% amphibole as 1-2mm size subhedral laths. 75% euhedral-subhedral alkali feldspar. <5% quartz. Moderately altered, with chlorite and minor carbonate as main alteration minerals. There is a 1cm wide quartz vein with red hematite alteration extending 1-2mm along contact from vein.	CO1606633	<0.005
B 29852	579231	5369606	Medium grained phaneritic tan-pink syenite; 20% amphibole (85% chlorite altered) as 1-3mm size subhedral laths. 75% alkali feldspar and 5% quartz. Moderately altered, with carbonate + chlorite +/- sericite as main alteration minerals (i.e chloritization of amphiboles). Several 5 mm wide cross-cutting quartz veinlets. Dark grey acicular laths of graphite?, primarily as fracture fill.	CO1606633	<0.005
B 29853	579172	5369600	Pieces of a phaneritic tan-grey quartz vein, with a dark grey partly shiny acicular mineral along fracture/alteration surface. (very soft, can easily be scratched) graphite?	CO1606633	<0.005
B 29854	579046	5369588	Pieces of a phaneritic grey-purple quartz vein, with darker red-purple hematite alteration extending from fractures and along fracture surfaces.	CO1606633	<0.005
B 29855	579018	5369495	Medium grained phaneritic pink syenite; 15% dark green amphibole as 1-3mm size subhedral laths. 80% alkali feldspar as sub-euhedral grains ~ 1-3mm. < 5% quartz, < 1% vfg cubic pyrite disseminated in matrix and along intruding quartz vein. Moderately altered with carbonate + chlorite +/- sericite +/- hematite as main alteration minerals. Grey quartz vein ~ 0.5-1cm wide, with sericite + chlorite halo.	CO1606633	0.017
B 29856	579257	5369392	Medium grained phaneritic pink syenite or monzonite; 15% dark green amphibole as 1-3mm size subhedral laths. 70% alkali feldspar 10% plagioclase feldspar; as sub-euhedral grains ~ 1-3mm. < 5% quartz, 1% vfg subhedral specular hematite within quartz grains and fracture surfaces.	CO1606633	<0.005
B 29857	579327	5369536	Medium grained phaneritic pink granite; 20% dark green amphibole as 1-3mm size subhedral grains. ~20% quartz, 35% plagioclase feldspar and 65% alkali feldspar. There is a small 5-7mm wide quartz vein. Moderately altered with carbonate + chlorite +/- sericite as main alteration minerals.	CO1606633	0.006
B 29858	579333	5369829	Medium grained phaneritic pink granite; 20% dark green amphibole as 1-3mm size subhedral grains. ~20% quartz, 35% plagioclase feldspar and 65% alkali feldspar. There is a small 1-1.5 cm wide grey quartz vein. Moderately altered with carbonate + chlorite +/- sericite as main alteration minerals.	CO1606633	0.009
B 29859	579319	5369570	Pieces of a phaneritic smoky-grey quartz vein. Minor hematite alteration along fracture surfaces and close to wallrock.	CO1606633	0.017
B 29860	579499	5369244	Medium grained phaneritic pink granite; 10% dark green amphibole as 1-3mm size subhedral grains. ~25% quartz, 25% plagioclase feldspar and 45% alkali feldspar. There is a small 0.5-1cm wide grey quartz vein. Moderately altered with carbonate + chlorite +/- sericite as main alteration minerals.	CO1606633	0.011
B 29861	579417	5369534	Medium grained phaneritic pink-grey granite; 10% dark green amphibole as 1-3mm size subhedral grains. ~25% quartz, 25% plagioclase feldspar and 45% alkali feldspar. Moderately altered with carbonate + chlorite +/- sericite as main alteration minerals. Pieces of a smoky-grey quartz vein, with some graphite? or hematite along fracture surfaces.	CO1606633	<0.005
B 29862	579432	5369533	Medium grained phaneritic pink syenite or monzonite; 15% dark green amphibole as 1-3mm size subhedral laths. 70% alkali feldspar 10% plagioclase feldspar; as sub-euhedral grains ~ 1-3mm and < 5% quartz. Several cross-cutting grey quartz veins with patchy hematite alteration.	CO1606633	0.043
B 29863	578345	5361308	Relics of a medium grained phaneritic granite, cut by a dark green-grey aphanitic mafic volcanic rock ~ 2-2.5 cm wide. Moderate chloritization and carbonatization.	CO1606633	<0.005
B 29864	579026	5369778	Pieces of a phaneritic smoky-grey quartz vein. Minor hematite alteration along fracture surfaces and close to wallrock.	CO1606633	0.007
B 29865	579034	5369678	Pieces of a phaneritic smoky-grey quartz vein. Minor hematite alteration along fracture surfaces and close to wallrock, which is a pink syeno-granite. Minor sericitization along fracture surfaces as well.	CO1606633	<0.005
B 29866	579329	5369792	Medium grained phaneritic grey-pink granite. 15% dark green amphibole, 70% alkali feldspar and 30% plagioclase feldspar and 15% quartz. Mm-wide veins filled with vfg dark grey mineral (hematite?). Moderately carbonatization and chloritization +/- sericitization.	CO1606633	<0.005
B 29867	579441	5369795	Medium grained light pink-white phaneritic granite, which has been pervasively carbonatized with moderate chloritization.	CO1606633	<0.005

			mm-size pseudomorphs of feldspar make up 80% of the composition with quartz ~20%. 1-2 cm smoky grey quartz vein cuts through sample.		
B 29868	578806	5369648	Medium grained phaneritic grey-pink granite. 15% dark green amphibole, 55% alkali feldspar and 30% plagioclase feldspar and 20% quartz. 0.5-1 cm wide smoky-grey quartz vein. Moderate carbonatization and chloritization +/- hematite and sericite	CO1606633	<0.005
B 29869	578833	5369635	Pieces of a dark to light smoky-grey quartz vein. Very hard, dark patches of another mineral mixed with the quartz?	CO1606633	0.013
B 29870	578836	5369641	Medium grained moderately altered pink granite. Pieces of smoky-grey phaneritic quartz vein with minor reddish hematization along fracture surfaces.	CO1606633	0.012
B 29871	578807	5369629	Medium grained phaneritic grey-pink granite. 15% dark green amphibole, 55% alkali feldspar and 30% plagioclase feldspar and 20% quartz. 0.5-1 cm wide smoky-grey quartz veins, with hematite along outer edges. Moderate carbonatization and chloritization +/- hematite and sericite. Patches of sulphide along fracture surface.	CO1606633	0.022
B 29872	578554	5369872	Pieces of phaneritic grey-white quartz vein. Pieces of green aphanitic metasediments, with mm-size hematite +/- carbonate fractures, and mm-size sulphide "blebs" along fracture surfaces.	CO1606633	<0.005
B 29873	578693	5370441	Medium grained phaneritic grey-pink granite. 15% dark green amphibole, 55% alkali feldspar and 30% plagioclase feldspar and 20% quartz. 0.5-1 cm wide smoky-grey quartz veins, with hematite along outer edges. Moderate carbonatization and chloritization +/- hematite and sericite. Patches of sulphide along fracture surface.	CO1606633	0.024
B 29874	578713	5370383	Medium grained phaneritic grey-pink granite. 15% dark green amphibole, 55% alkali feldspar and 30% plagioclase feldspar and 20% quartz. 0.5-1 cm wide smoky-grey quartz veins, with hematite along outer edges. Moderate carbonatization and chloritization +/- hematite and sericite. Patches of sulphide along fracture surface, as irregular blebs or as cubic crystals.	CO1606633	0.016
B 29875	578722	5370347	Medium grained phaneritic grey-pink granite. 15% dark green amphibole, 55% alkali feldspar and 30% plagioclase feldspar and 20% quartz. 0.5cm wide white quartz-carbonate vein, with hematite along outer edges. Moderate carbonatization and chloritization +/- hematite and sericite. Patches of sulphide along fracture surface, as irregular blebs or as cubic crystals.	CO1606633	0.009
B 29876	578727	5370335	Medium grained phaneritic grey-pink granite. 10% dark green amphibole, 70% alkali feldspar and 20% plagioclase feldspar and 20% quartz. 0.5cm wide white quartz-carbonate vein, with hematite along outer edges. Moderate carbonatization and chloritization +/- hematite and sericite. Patches of sulphide along fracture surface, as irregular blebs or as cubic crystals.	CO1606633	0.009
B 29877	578735	5370315	Medium grained phaneritic grey-pink granite. 10% dark green amphibole, 70% alkali feldspar and 20% plagioclase feldspar and 20% quartz. Pieces of white-grey quartz-carbonate vein, with hematite along outer edges. Moderate carbonatization and chloritization +/- hematite and sericite.	CO1606633	0.007
B 29878	578751	5370261	Medium grained phaneritic grey-pink granite; same as above. Some local quartz and plagioclase rich patches.	CO1606633	0.006
A 96351	578850	5369693	Medium grained pink syenite with 2cm quartz stringer – rare pyrite	16-613	0.01
A 96352	578876	5369677	Possible diabase dike along the wall of the canyon; nil sulphide and quartz	16-613	<0.01
A 96353	578848	5369653	Coarse quartz with some subhedral faces, nil sulphides and minor carbonate along margins	16-613	<0.01
A 96354	578848	5369653	Coarse quartz from 4cm wide vein in canyon wall; rare pyrite and minor hematite along margins	16-613	<0.01

Appendix A
Assay Certificates



Certificate of Analysis
Work Order : CO1606633
[Report File No.: 0000028395]

Date: November 11, 2016


To: GREG MATHESON
OSISKO MINING INC
155 UNIVERSITY AVENUE
SUITE 1440
TORONTO ON M5H 3B7

P.O. No.: 03/11/16 CORE
Project No.: 2016 EXPLORATION
Samples: 28
Received: Nov 3, 2016
Pages: Page 1 to 2
(Inclusive of Cover Sheet)

Methods Summary

<u>No. Of Samples</u>	<u>Method Code</u>	<u>Description</u>
28	PRP89	Dry, Crush to 75% 2mm, Split to 250g, Pulv to 85%, 75µm
28	WGH79	Sample Weight & Reporting of weights (REJECTS=1 - ROH store)
28	GE_FAI323	Au by FAS, ICP-AES, 30g

Certified By : _____


Ken Williams
Operations Manager

Report Footer:

L.N.R. = Listed not received
n.a. = Not applicable

I.S. = Insufficient Sample
-- = No result

*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

Methods marked with an asterisk (e.g. *NAA08V) were subcontracted
Elements marked with the @ symbol (e.g. @Cu) denote assays performed using accredited test methods

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Final : CO1606633 Order: 03/11/16 CORE
 Report File No.: 0000028395

Element Method Det.Lim. Units	Wt WGH79 0 g	Au GE_FAI323 0.005 g/t
B29851	764.80	<0.005
B29852	335.50	<0.005
B29853	630.00	<0.005
B29854	466.10	<0.005
B29855	601.70	0.017
B29856	371.50	<0.005
B29857	702.80	0.006
B29858	267.00	0.009
B29859	1172.60	0.017
B29860	383.30	0.011
B29861	463.20	<0.005
B29862	745.70	0.043
B29863	1010.90	<0.005
B29864	402.70	0.007
B29865	361.10	<0.005
B29866	438.30	<0.005
B29867	628.90	<0.005
B29868	315.30	<0.005
B29869	647.30	0.013
B29870	982.90	0.012
B29871	2494.10	0.022
B29872	506.40	<0.005
*Dup B29872	N.A.	<0.005
B29873	452.40	0.024
B29874	279.40	0.016
B29875	473.30	0.009
B29876	530.90	0.009
B29877	562.20	0.007
B29878	622.80	0.006
*Rep B29852		<0.005
*Std CDN-GS-P6		0.668
*Std CDN-GS-3P		3.10
*Blk BLANK		<0.005

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Swastika Laboratories Ltd

Assaying - Consulting - Representation

Page 1 of 1

Assay Certificate

Certificate Number: 16-613

Company: **Oban Mining Corporation**

Project: _____ Report Date: **24-May-16**

Attr: **Greg Matheson**

We hereby certify the following Assay of 4 rock/grab samples submitted 18-May-16 by Greg Matheson

Sample Number	As	As Crk
	FA-MP g/Mt	FA-MP g/Mt
A96351	0.01	
A96352	< 0.01	
A96353	< 0.01	
A96354	< 0.01	

Certified by 
Jing Lin, M Sc

1 Cameron Ave., P.O. Box 10, Swastika, Ontario P0K 1T0
Telephone (705) 642-3244 Fax (705) 642-3300