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Barrick Gold Inc. Work Assessment Report Bomby Township, Thunder Bay Mining District

Thunder Bay District March 6, 2015 Aimee Langlais, Project Coordinator Rodney Barber, Chief Geologist

TABLE OF CONTENTS

1.0 Introduction	p.2
2.0 Property Location	p.2
3.0 Geology	p.2
4.0 Drill Program	p.9
5.0 Conclusions and Recommendations	p.10
6.0 References	p.11

List of Figures

- Figure 1. Regional Property Location Map
- Figure 2. Local Property Location Map
- Figure 3. Ontario ClaiMaps Claim Locations with Drillhole Collars
- Figure 4. Plan view of Drillhole Collars and Traces
- Figure 5a. Detailed section of DDH W1530
- Figure 5b. Detailed section of DDH W1531
- Figure 5c. Detailed section of DDH W1533
- Figure 5d. Detailed section of DDH W1534

Appendices

- Appendix A Hemlo Geology Logging Legend
- Appendix B DDH W1530 Drill Logs
- Appendix C DDH W1531 Drill Logs
- Appendix D DDH W1533 Drill Logs
- Appendix E DDH W1534 Drill Logs
- Appendix J Boreal Drilling Invoices
- Appendix K Contact Information
- Appendix L Certificate of Qualifications

1.0 INTRODUCTION

In August, 2015, the Open Pit Adit Exploration Diamond Drilling Program was started at William's Mine. 11 holes were drilled from August to September. Holes W1530, W1531, W1533 and W1534 are contained within this report. All drilling for this program was done north of the current open pit high wall, and was intended to test the northwestern extents of mineralization in the area. While relatively close to existing infrastructure, drill testing in this area had been minimal. The diamond drill holes being submitted for assessment fell outside of the current resource model and therefore meets the requirements to be classified as exploration drilling.

Drilling was performed on Barrick Gold Corporation's Lease Claim 274, with assessment credits being distributed to other contiguous claim groups. No physical work was conducted off of the William's Mine footprint.

2.0 PROPERTY LOCATION

Barrick Gold Corporation's Hemlo Mines are located in northwestern Ontario, approximately 300 km east of Thunder Bay (Figure 1). The group of claims sits to the north and south of the Trans-Canada Highway (Hwy 17) just west of the junction with Hwy 614 (Figure 2). The claims are located approximately 40 km east of Marathon, Ontario.

Most claims are accessible directly by road (Hwy 17, Hwy 614, Philips Creek Road, Williams and David Bell Mines' Tailings access roads). Claims that do not have direct road access are within 1-2 km of a roadway and can be accessed by foot.

Through an agreement with Newmont Canada Limited in March, 2015, claim CLM 274 is now contiguous with Barrick's staked claims in the Wabikoba Lake Area.

Lease Claim 274 and TB32054, on which drilling for this report was completed, are part of the Williams Mine property. Williams is one of three mines comprising the Hemlo Camp. The former Golden Giant and David Bell Mines are just east of Williams, spread approximately 5 km along the highway.

3.0 GEOLOGY

Exploration History

Mineralization was discovered in the 1940's by the Moses family. Later in 1945, Harry Ollmann and Dr. J. K. Williams staked 11 claims (the Ollmann-Williams property). Adjoining claims were staked in 1946 and optioned to Lake Superior Mining Corporation. These were optioned to Teck-Hughes Gold Mining in 1951, who drilled six holes, and then dropped and returned the claims to Lake Superior Mining. Lake Superior Mining Corporation Ltd. optioned their ground to Cusco Mines Ltd. in 1958 and more diamond drilling was carried out. The claims eventually lapsed.

In 1973, the former Lake Superior property was staked by Ardel Explorations Ltd., and three diamond drill holes were completed. It was subsequently picked up by Cypress Resources Ltd., who dropped the claims.

R.G. Newman staked claims that adjoined the western boundary of the Williams patented claim group in 1976.

In December 1979, prospectors Donald McKinnon and John Larche staked a large block of claims surrounding the 11 patented claims comprising the Williams claim block. Corona Resources Ltd. (later named International Corona Resources Limited) optioned a portion of these claims. Drilling resulted in a resource estimate of 340,000 tonnes at 6 g/t.

In May 1981, while Corona was negotiating with Lola Williams for the Williams property, representatives of Corona and Long Lac Minerals (Lac Minerals) exchanged information with the intent of formulating a joint-venture agreement. Lac Minerals went on to get an agreement directly with Mrs. Williams.

In October 1981, Corona alleged that Lac Minerals was in breach of fiduciary agreement and launched a lawsuit over the ownership of the Williams claims. The ensuing three year court battle would become one of the best known legal disputes in Canadian mining history. Corona, needing financial support for their legal dispute with Lac Minerals and for the development of a newly discovered zone (the East Zone), entered into a joint venture agreement with Teck Corporation in November 1981.

The remainder of Larche and McKinnon's claims were optioned to Goliath Gold Mines Ltd (Goliath) in 1981. Claims located west of the Williams block were placed into the holdings of Golden Sceptre Resources Ltd. (Golden Sceptre). Drilling on the Golden Sceptre property began in August 1982.

In 1982, Goliath Gold Mines and Golden Sceptre Resources signed an agreement with Noranda Exploration Company Ltd for development of their Goliath and Golden Sceptre properties. This gave Noranda a controlling interest in what would become the second largest mine in the Hemlo camp.

In March, 1986, the Supreme Court of Ontario decided in favor of Corona over Lac Minerals. Lac Minerals lost an appeal to the Ontario Court of Appeal in October 1987, and subsequently to the Supreme Court of Canada. The property was turned over to Corona, and the name of the mine was shortened to the Williams Mine.

Homestake Mining Corporation purchased the assets of International Corona Resources in 1991 and Homestake was later purchased by Barrick Gold Inc. in 1999.

In January, 1987 Golden Sceptre Resources Ltd., Goliath Gold Mines Ltd., and Noranda Minerals Inc. amalgamated their holdings and formed Hemlo Gold Mines Inc. (Hemlo Gold). As a result of corporate restructuring in 1992, Noranda Minerals Inc. transferred all of its gold assets to Hemlo Gold. Ownership of Golden Giant changed to Battle Mountain Canada Ltd. in 1996 and then to Newmont Canada Ltd. in 2001.

In 1998, Williams acquired the surface and mineral rights of the Sceptre claims from Battle Mountain Canada to the 9450 elevation of the Williams Mine grid. In 1999, Williams also acquired the surface and mining rights on the Horizon claims from Battle Mountain Canada to the 10150 elevation of the Williams Mine grid. These acquisitions would permit pit expansion to the west, and allow evaluation of underground mining of the down dip extension of the C-Zone pit. In addition to these two exchanges and as part of the same 1998 agreement, the David Bell Mine agreed to transfer the upper quarter claim and the M3 and M4 blocks of the C zone to Battle Mountain Canada. Battle Mountain Canada also agreed to transfer Block 5 east and the Upper Block 5 to David Bell. Both of these latter exchanges were completed to facilitate mining for the parties involved.

In 2002, Williams acquired the surface and mineral rights from surface to the 10150 level on lease 273 and the remainder of lease 274 from Newmont Canada Ltd., providing an area for barren waste stockpiles from the expanded pit.

In 2006, Williams acquired the surface and mineral rights on lease 106623 from Newmont Canada Ltd. This acquisition allowed Williams to mine C Zone mineralization above the 9450 level as well as the down dip extension of the C Zone mineralization on the Interlake property. In August, 2008 Newmont and Williams entered into an agreement to allow WOC to extend its underground mining operations on the WOC property through a 60 m restricted area (Boundary Pillar).

The Williams Mine is currently 100% owned by Barrick Gold after it purchased Teck's 50% interest in April of 2009. The mining claims at the Williams Mine are subject to three net smelter royalties totaling a net effective rate of 2.18% based on expansion mine plans.

The Williams Mine ore body has been systematically drilled over the years to maintain good quality information for ore definition purposes. By the end of 2013, just over 7000 diamond drill holes had been completed at Williams Mine.

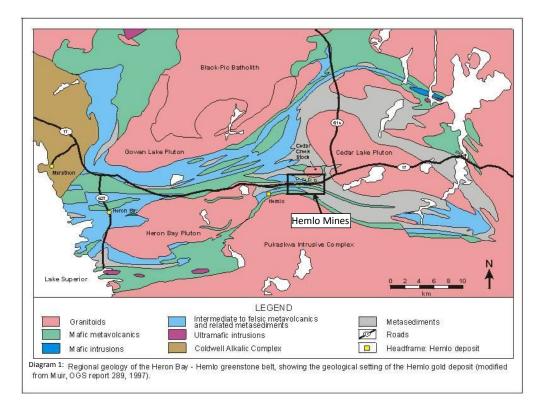
Production from the Williams Mine began in mid-1985 from the A Zone open pit located at the east end of the property. This was augmented by underground ore from the same area to sustain an initial 3000 tonnes/day mining rate. The completion of the main shaft, the B-Zone infrastructure and a mill expansion program in 1988 facilitated an increase to 6300 tonnes/day. The closing of the David Bell mill in 1999, (treating David Bell ore through the Williams mill), and increased production from the C Zone pit brought mill throughput to 10,000 tonnes/day to the end of 2006. Since then and until the end of the life of mine, throughput is budgeted at between 8,000 to 9,000 tonnes/day.

Regional

The Williams Mine and surrounding claims lay on the east-west trending Schreiber-Hemlo greenstone belt of the Wawa subprovince of the Archean Superior province (Lin, 2001; Muir, 2002).

The Schreiber-Hemlo greenstone belt consists of a sequence of sedimentary and felsic, intermediate, and mafic volcanic rocks ranging from ≥2720 Ma to approximately 2688 Ma (Lin, 2001; Muir, 2002). The belt is bounded by metamorphic batholiths and is intruded by several granitoid plutons (Lin, 2001; Muir, 2002).

Regional metamorphic grade increases from upper greenschist in the west to middle-amphibolite in the east (Lin, 2001 Muir, 2002). The greenstone belt has undergone several phases of deformation resulting in large-scale shearing and folding (Diagram 1)(Lin, 2001; Muir, 2002).



Deposit

The ore zones at the Williams open pit strike roughly east-west and dip steeply to the north. Ore reserves at the Williams Mine are grouped into two main areas: the B and C Zones. The B Zone is further divided into the main zone and footwall zone. The A Zone has been mined out. The A and B Zones are geologically the same continuous zone, with the B Zone being the down-plunge westerly extension of the A Zone, which subcropped at surface.

The C Zone represents multiple sub-parallel lenses of irregular, generally narrow, gold mineralization. C Zone ore is stratigraphically different from the main zone and occurs in two broad geological domains, the porphyritic felsic metavolcanics and the intermediate to felsic volcaniclastic sediment unit. The open pit is located within the C Zone.

C Zone

The general stratigraphy from south to north is Lower Metasedimentary rocks, Porphyritic Felsic Metavolcanics (Moose Lake Porphyry), Quartz Eye Muscovite Schist, Intermediate to Felsic Volcaniclastic Sediments (fragmental unit) and the Upper Metasedimentary rock sequence. Lower and upper denote the relative structural positions of the metasedimentary rock units as the younging directions are unclear. All of the major rock units are highly deformed with multiple events of deformation. Structural geology is complex. Rocks in the deposit area exhibit high strain. At the deposit scale, rocks in the area are tightly isoclinally folded. Most of the ore bodies occur on one or more limbs of these folds. Local drag folding can be seen in the ore. Occasional transverse faults offset ore and wall rock units up to a few meters, and there is some shearing along major contacts. Regional metamorphism is up to amphibolite grade. The deposit has also been cut by a number of north-south trending diabase and lamprophyre dikes which post-date mineralization.

Lower Metasedimentary Sequence

The lower metasedimentary sequence is roughly 100 m thick. It can be divided into three units with gradational contacts.

The lower unit is laminated and well foliated. Its feldspathic nature is reflected in its light grey color, hardness, and low ferromagnesian mineral content. It is typified by small quartz eyes and light colored streaks and bands, which contain coarse amphibole crystals.

The middle unit of the sequence is well banded, foliated, medium grain, and purplish grey in color. They are typified by 5% to 10% dark calc-silicate bands, 5 cm to 10 cm thick. Staurolite, minor garnet and kyanite occur in this unit.

The upper unit of this metasedimentary sequence is characterized by its elevated muscovite content. It is light greenish-grey in color. Thin shears, rich in muscovite, are common in the planes of foliation and small quartz eyes are often visible. Banding is generally poorly defined, possibly due to deformation, and approximately 5% of the unit is made up of dark green calc-silicate bands. The muscovite content of this unit generally increases towards the contact with the felsic unit.

Porphyritic Felsic Metavolcanics (Moose Lake Porphyry)

Felsic rocks structurally overlie the lower metasediments. Current workers favor an intrusive origin for this unit. Overall the unit can best be described as a variably sheared, quartz-feldspar porphyritic felsic rock defined by quartz eyes and/or feldspar phenocrysts and/or fragments. Highly variable alteration and deformation result in a highly variable appearance. In general, the unit consists of between 30 and 60% white feldspar phenocrysts and 10% quartz phenocrysts set in a matrix composed of variable amounts of biotite, sericite and fine grained feldspar/silica alteration. Carbonate is absent or else present in small amounts (<5%).

Planes of weakness are narrow (0.5-2 m) sericitic shears parallel to foliation and 1-10 cm wide chloritic shears/cataclasite zones parallel to sub-parallel to foliation. These chloritic shears have been the cause of hanging wall failures in the long hole stopes. The 300 series (320, 332, and 333 lenses) of mineralized lenses are located in this unit. The ore extends from the pit and economic intervals pinch out below 9800 elevation. The grade in the 300 lenses is more consistent than in the 100 lenses.

Quartz Eye Muscovite Schist

This unit is muscovite rich and contains approximately 5% quartz eyes 1 to 3 mm long. It is interpreted to be the altered, sheared equivalent of the Moose Lake Porphyry. Tourmaline is common as randomly oriented crystals, concentrated in thin bands along foliation planes, and in minor quartz veins. Green vanadium mica is common in the schist.

The marker quartz eye muscovite schist between the Moose Lake Porphyry and the fragmental unit is best developed at surface and thins with depth. The hanging wall contact with the fragmental unit is distinct while the footwall contact is gradational with alternating bands of porphyry and schist.

Intermediate to Felsic Volcaniclastic Sediments (Fragmental Unit)

A 100 to 180 m thick intermediate to felsic fragmental unit occurs along the contact between the Moose Lake Porphyry and overlying metasedimentary unit in C Zone. There are at least two distinctive units with gradations between them.

The intermediate tuff / volcaniclastic sediments consist of a series of relatively thickly bedded (2-10 m thick) units interpreted as volcaniclastic sediments or reworked tuffs. The unit is composed of (40-60%) biotite with generally fewer and smaller fragments than the felsic lapilli-tuff. Elongated, fine grained felsic clasts (10-50%) and elongate mafic clasts (0-15%) are set in a fine grained matrix. The matrix varies from dark brown (biotitic) to light grey (sericitic). Fine, pervasive calcite is also present, typically between 10 and 40%. Clasts (which are not always present) are often concentrated within 1-3 m wide zones. Laminated sections, often with calc-silicate banding are also present locally, but are not nearly as prevalent as in the hanging wall sediments. Tight, isoclinal folding is prominent within parts of this unit in field exposures.

These rocks tend to part along bedding/foliation. An important, less competent, subunit is characterized by hematite staining and closely spaced joints, both parallel to and cutting foliation, which are filled by calcite/anhydrite. Another important incompetent subunit is characterized by moderate to strong sericitization parallel/subparallel to bedding. These sericitic zones tend to be schistose. The Felsic Lapilli-Tuff unit consists of primarily coarse buff or light grey stretched feldspathic fragments (up to football sized) within a usually feldspathized matrix. The matrix can also be biotitic or sericitic. There are more and larger fragments than in the Intermediate Tuff. Fine (<1 mm) quartz eves are often

There are more and larger fragments than in the Intermediate Tuff. Fine (<1 mm) quartz eyes are often visible within the fragments. Fragments of biotitic and calcareous material and of feldspar porphyry are also present, but are usually smaller (1-5cm) and less than 5% of the fragment population. These rocks should be competent except for the planes of weakness along narrow (0.3-1 m) sericitic shears and boudinaged calcite veins (1-10 cm wide). The veins are usually parallel to foliation but locally bifurcate in both plan and section creating wedge-shaped blocks of ground. The 100 series (130, 131, 140 and 150 lenses) of mineralized lenses occur in this rock unit. These lenses have some very high grade intersections, which are less consistent on plan and in section than in the 300 lenses. The 140 and 150 lenses are currently interpreted to extend onto the Interlake property.

Upper Metasedimentary Sequence

The hanging wall metasedimentary sequence is primarily composed of fine to medium grained, banded, laminated pelitic metasediments, with some minor tuffaceous layers. The metasedimentary rocks are fine to medium grained and purplish grey in color with the bands typically being 1 cm to 1 m wide. The unit is typified by the presence of 5% to 10% dark green calc-silicate bands up to 10 cm thick. Kyanite, staurolite and garnet are locally present in the metasediments within 100 m of the hanging wall. Tuffaceous lenses are represented by more muscovite-rich units that lack amphibole carbonate banding and have many small quartz eyes. While well banded and laminated in drill core, in outcrop individual bands are usually discontinuous.

Intrusive Rock

The major intrusive rocks, in decreasing order of age, are intermediate to felsic dikes and felsic

porphyry dikes, altered, biotite-rich dikes, diabase, and lamprophyre. The dikes (except for Diabase) are typically less than 1 meter thick.

Felsic Dike

These are light grey intrusive dikes with/without feldspar phenocrysts. Most of the felsic dikes are parallel to subparallel to foliation, but can dip steeply to moderately to the South. Most have little effect on the structural integrity of the surrounding rocks because their contacts are not foliated. They tend to fail along steeply dipping, chlorite lined fractures roughly perpendicular to contacts.

Intermediate Dike

These are medium to dark grey intrusives with a biotite matrix. The dikes are typically less than 1 meter thick. The intermediate dikes usually cut foliation at a low angle, which has little effect on the structural integrity of the surrounding rocks. The dikes can cut at a higher angle and dip moderately to the southeast.

Mafic Dike

These dikes are black to green intrusives rich in amphiboles. The dikes are typically less than 1 meter thick. Most of the mafic dikes are parallel to subparallel to foliation, but locally dip steeply to moderately to the South (e.g. northwest corner of the pit). Mafic dikes can be a plane of weakness with their sheared chloritic contacts and some dip south cutting foliation.

Diabase

Diabase dikes are late intrusives composed of amphiboles and feldspars. They occur as major structures 3 to 12 meters wide cross cutting foliation at approximately 90 degrees. This greatly reduces the structural integrity of the surrounding rocks. The margins of the dikes are cut by numerous joints producing blocky incompetent rock. They are subvertical or generally dip steeply to the east.

Lamprophyre

Lamprophyre dikes are also late intrusives consisting of carbonate, felted biotite, magnetite and pyroxene. They appear to fill late fault zones. Lamprophyres are rare in CZone underground. The one lamprophyre observed in the pit is less than one meter thick and cuts across foliation. The contacts are major planes of weakness.

Mineralization

The most significant mineralizing event (Au-Mo-K event) introduced Au, S, Mo, Zn, As, Sb, Hg, Tl, and W and the alteration elements K, Si, Fe and V during the early stages of the major regional deformation event (G2) and prior to peak metamorphism. Pervasive potassium-dominated alteration resulted in a core of feldspathization (microcline-quartz) coincident with the ore zone and an outer halo of muscovitization (muscovite-quartz). Significant pyritization, with biotitization and silicification are associated with alteration. Subsequent to the Au-Mo-K event, remobilization of Au-Sb-Si resulted in quartz veins with gold and stibnite, an Au-Ca event resulted in redistribution of gold with calc-silicate alteration assemblages, and an Au-As-Hg event precipitated low temperature sulphide minerals, such as realgar, orpiment and cinnabar from retrograde fluids. Molybdenite and green vanadiferous mica are the best visual mineralogical indicators of gold content in the Hemlo deposit.

Enrichment of Au, Mo and lithophile elements suggests that magmatic fluids transported the metals; however, the source of the fluids has not been identified. The fluids were channeled along the feldspar

quartz porphyry-metasediment interface and mafic fragmental in the restraining bend of a regional sinistral, ductile shear zone. The barite horizon contributed to competency contrast and may have triggered gold precipitation.

K, Si, Fe, V enrichment and Ca, Mg, Na depletion produces distinct alteration haloes, both across and along strike from the deposit. The K enrichment produces a strong radiometric anomaly. Associated pyritization results in subtle but distinct VLF-EM and IP anomalies detected in both airborne and ground surveys. As, Sb, and Hg haloes are locally present as a result of metal redistribution during late alteration events.

The Hemlo deposit has several distinct mineralogical characteristics. High Hg content is a distinguishing feature of Hemlo native gold. Microcline related to alteration and mineralization has high Ba and W. Rutile in the ore zone is enriched in V, W and Sb.

The C Zone mineralization is approximately 400 to 600 meters west of the B Zone and distinctly different from the B-Zone. Several zones or lenses typify it; most of which are thin, low to medium grade mineralization. These extend eastward roughly 700 meters from the western boundary of the Williams property and vertically from surface to a depth of at least 1300 meters. The Interlake resource is the down dip extension of the C Zone mineralization.

The C Zone mineralization generally strikes at approximately 100 degrees, dips 68 degrees to the North and rakes at 45 to 60 degrees to the west. The higher-grade cores of the lenses are mined by underground methods where ore body widths are generally less than 10 m. Ore bodies in the C Zone generally occur along contacts between the fragmental units or as lenses that parallel the foliation. Individual lenses display `pinch and swell' features and large variances in grade can occur within each lens. Pre-existing geologic structures appear to have exerted the strongest controls on mineralization. The influence of later deformational events is not well understood. All of the major rock units are highly deformed with multiple events of deformation. Regional metamorphism is up to amphibolite grade. There is a key marker muscovite schist, which pinches out at depth, between the porphyry and the fragmental unit.

The 300 series of lenses are contained in the porphyritic felsic metavolcanics (Moose Lake Porphyry). The lens numbers increase to the south with the 320, 332, and 333 being the economic lenses underground. The C332/333 zone displays the greatest continuity of all of the zones and has been traced 500 meters along strike and over 400 meters down-dip. The 100 series are contained in the intermediate to felsic volcaniclastic sediments (fragmental) unit. The 130, 131, 140 and 150 lenses make ore grade in different areas underground. The Interlake ore is the down dip extension of the 140 and 150 lenses.

4.0 DRILL PROGRAM

Eleven diamond drill holes, collared at ten different locations, were planned for the 2015 Open Pit Adit Exploration Diamond Drilling Program at Williams. This report contains information from drillholes W1530, W1531, W1533 and W1534 (Figures 3, 4 and 5a-d).

Boreal Drilling was contracted to perform all diamond drilling for the 2015 program.

Drilling began in August, 2015, and was completed in September, 2015. Appendix J contains invoices for this period. Drillings costs for DDH W1530, W1531, W1533 and W1534 totaled \$74,898.

The drilling schedule was two weeks on, one week off, with two 10-hour shifts per day. Each two-man crew consists of a Runner and a Helper.

All holes were sampled and sent for Au assay (not submitted for assessment credit). Detailed drill logs are provided in Appendices B - E. Drill hole sections are provided in Figures 5a-d.

Hole ID	Easting (mE)	Northing (mN)	Elevation (mASL)	Azimuth (degrees)	Dip (degrees)	Length (m)
W1530	578203	5394715	358	180	-48	276
W1531	578233	5394710	356	180	-48	234
W1533	578260	5394698	356	181	-59	300
W1534	578261	5394698	362	180	-69	351

Table 1. Diamond drillhole collar and orientation details.

General Lithology

All four drillholes were collared in intermediate volcaniclastic rocks in the hanging wall. All drillholes pass through an intermediate fragmental unit near the top of the hole. This unit appears to be of volcaniclastic origin with subrounded light cm-scale clasts in a fine grained biotite rich matrix, and ranges from seven to twelve meters wide (core length). Drilling intersected roughly 150 meters of hanging wall sediments, including a conglomeratic unit with cm-scale, rounded, heterolithic fragments in a fine grained matrix. This fragmental unit can be traced along all drilling from this program with variable thickness. Drillholes W1530 and W1531 intersect a narrow biotite rich volcaniclastic layer towards the end of the metasedimentary unit that is not seen in W1533 and W1534. All drillholes intersect a second intermediate volcaniclastic unit at approximately 200 meters depth +/- 30 meters. This volcaniclastic unit is generally biotite rich with intermittent calc-silicate banding, and contains a fragmental horizon that is strongly feldspathically altered and contains, or is adjacent to, moderate molybdenite mineralization. Disseminated pyrite can be found throughout most units.

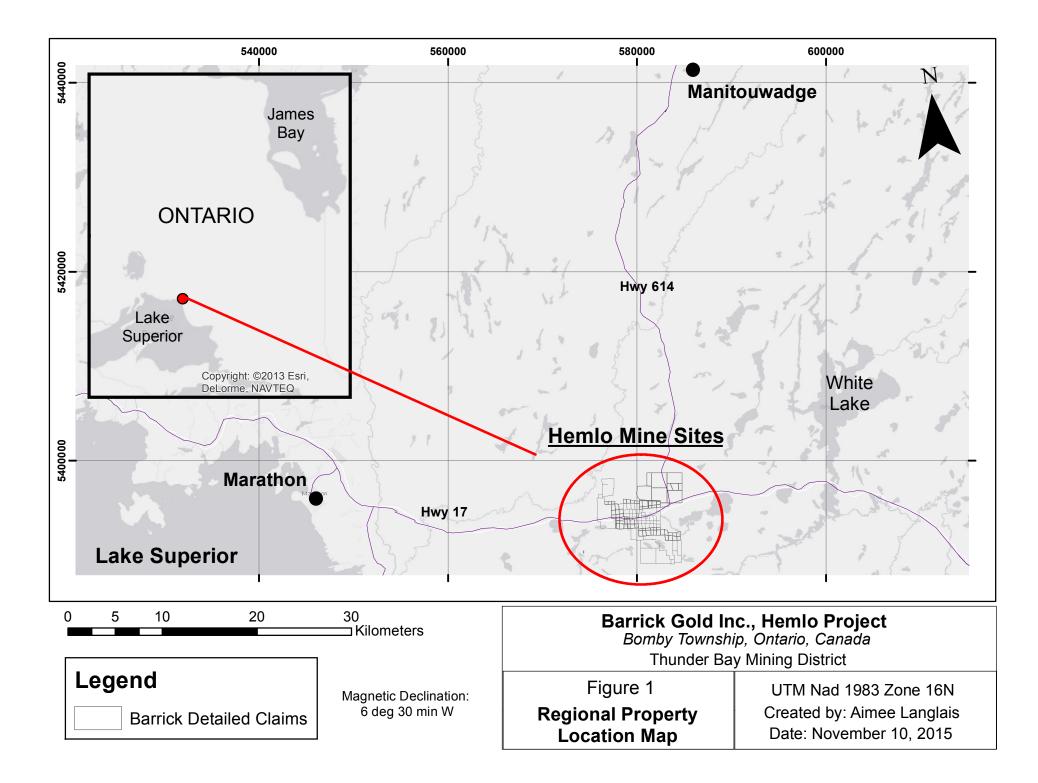
5.0 CONCLUSIONS AND RECOMMENDATIONS

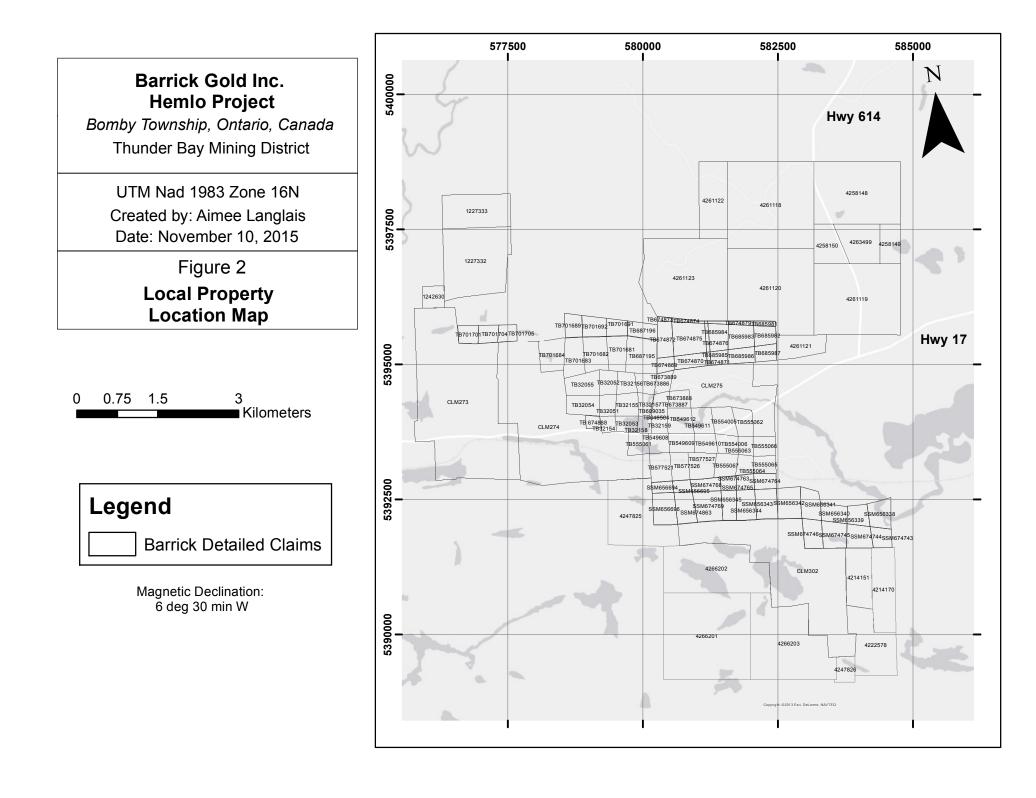
The 2015 diamond drilling program intersected a series of metamorphosed, highly strained sedimentary and intermediate volcaniclastic rocks. Local hetrolithic conglomerate may be useful as a marker horizon. The presence of amphibole and garnet suggest metamorphic grade is up to the lower amphibolite facies. Retro-grade metamorphic minerals around mineralized zones include muscovite, biotite, chlorite, calcite and feldspar.

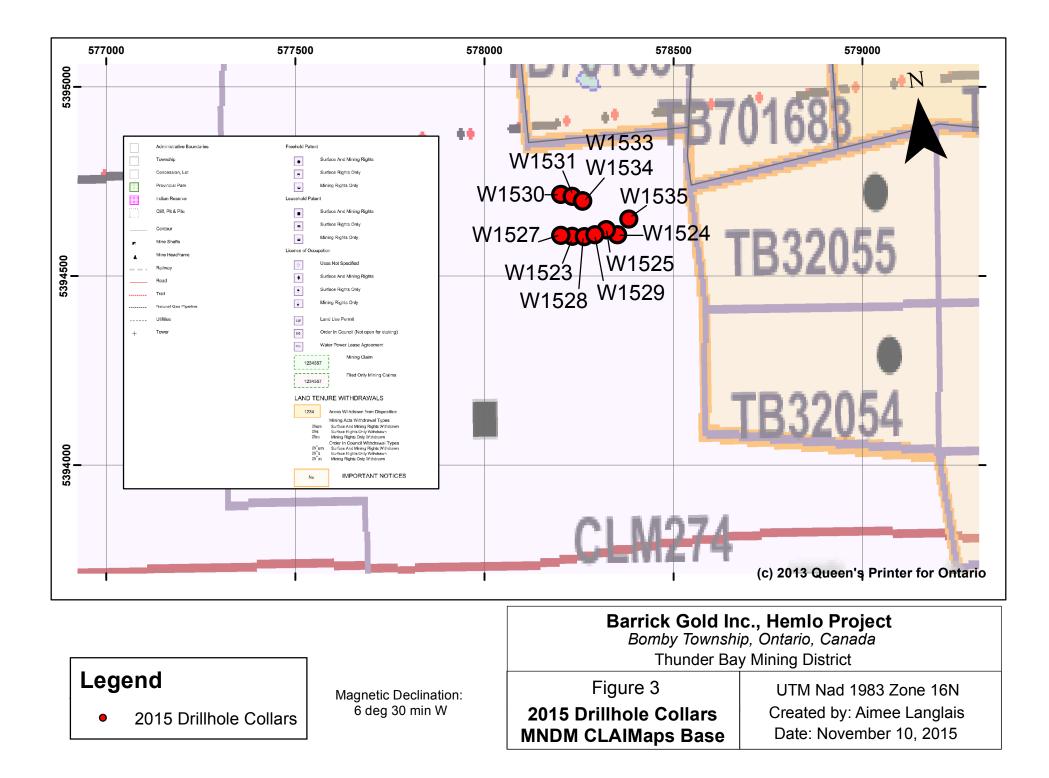
Mineralized zones present in the open pit appear to continue along strike to the west and at depth. Further drilling is warranted to further explore this mineralization.

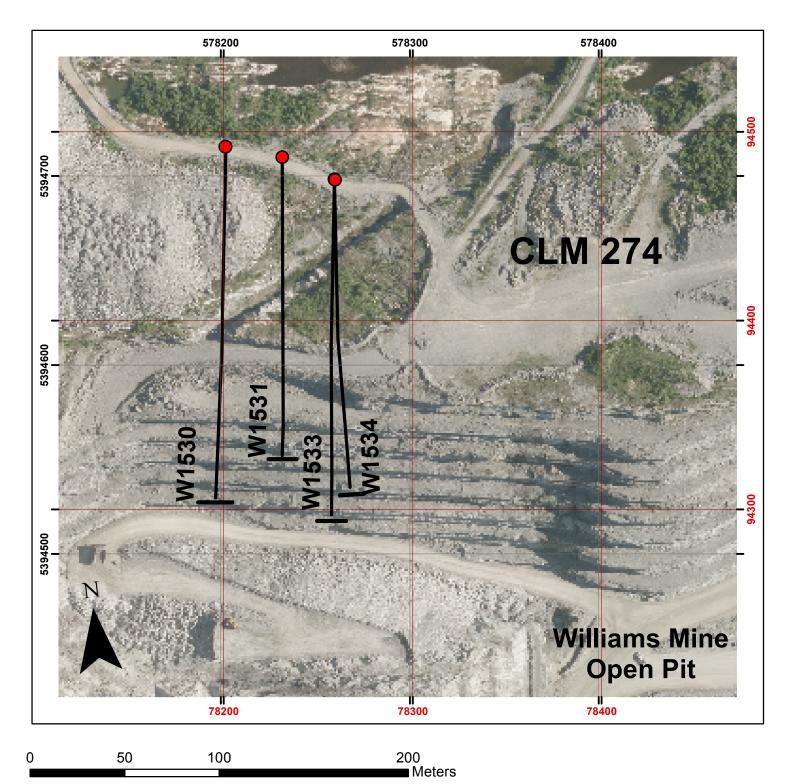
6.0 REFERENCES

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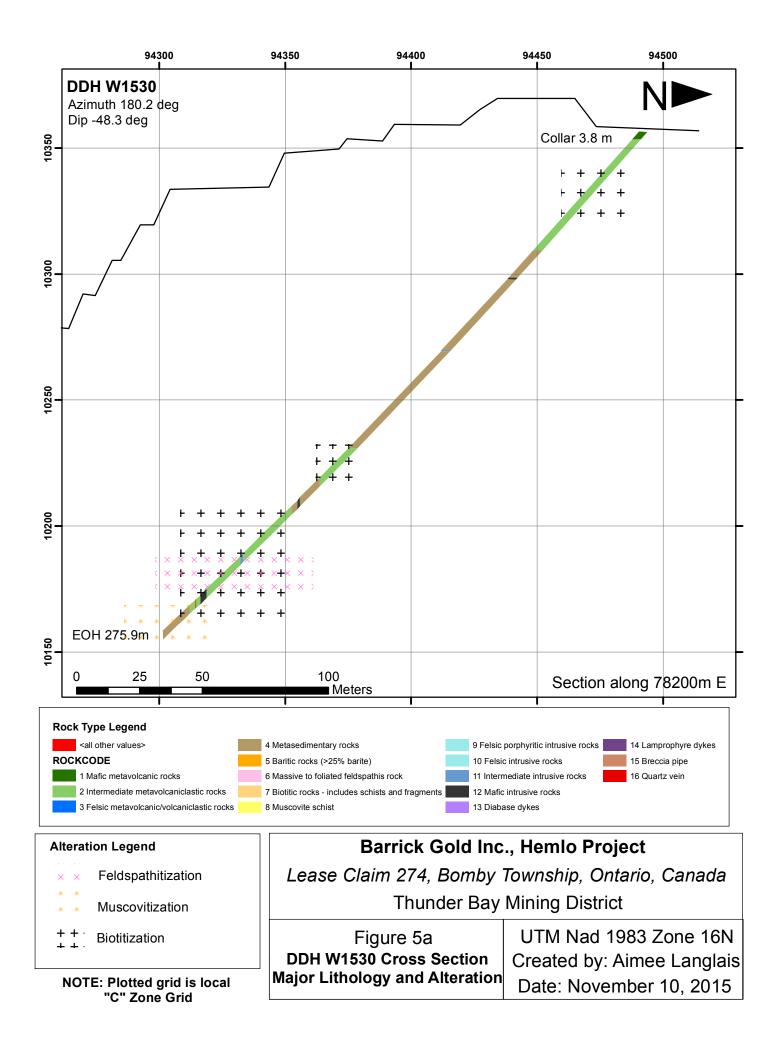


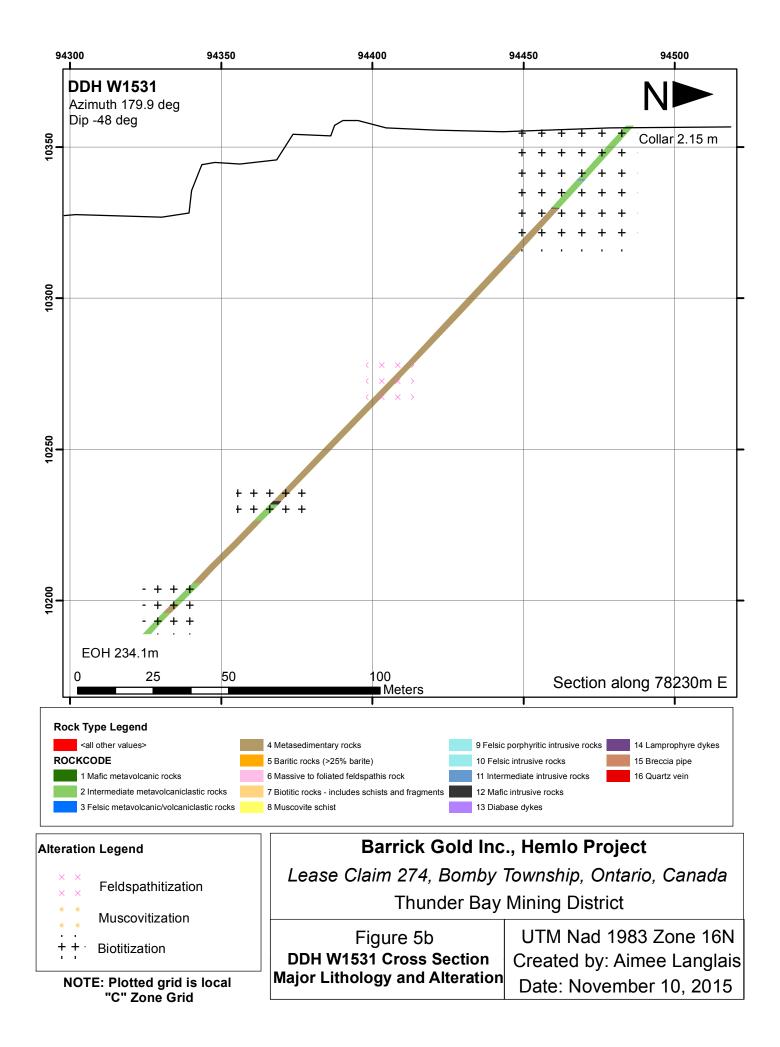


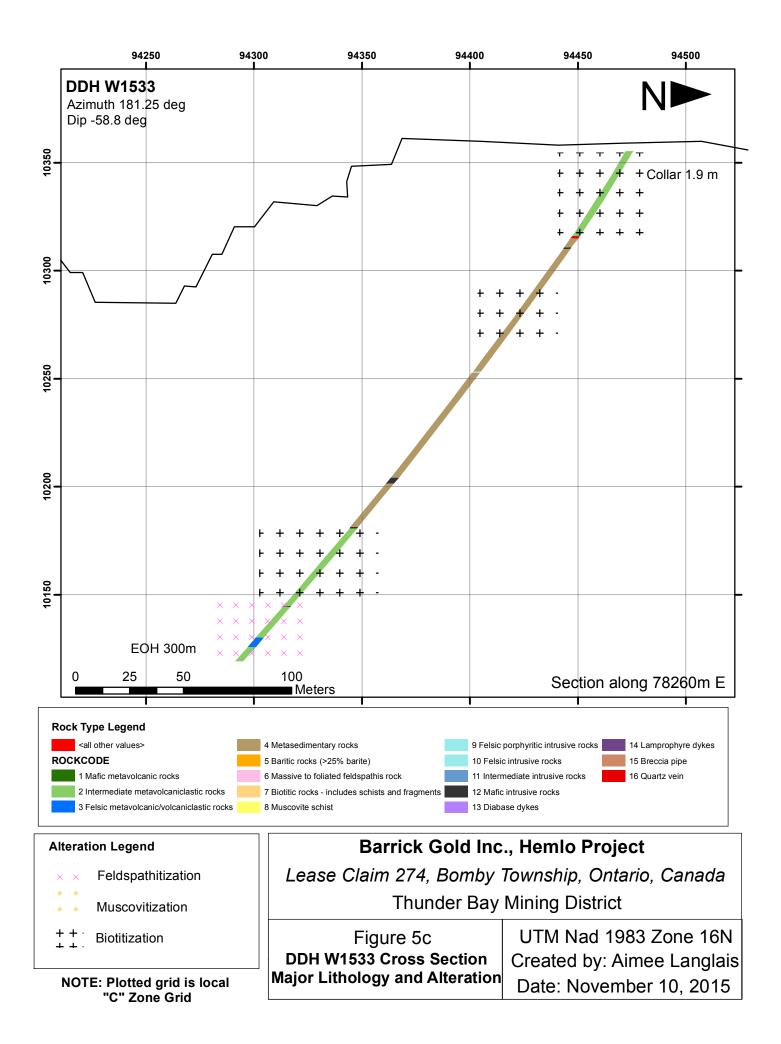


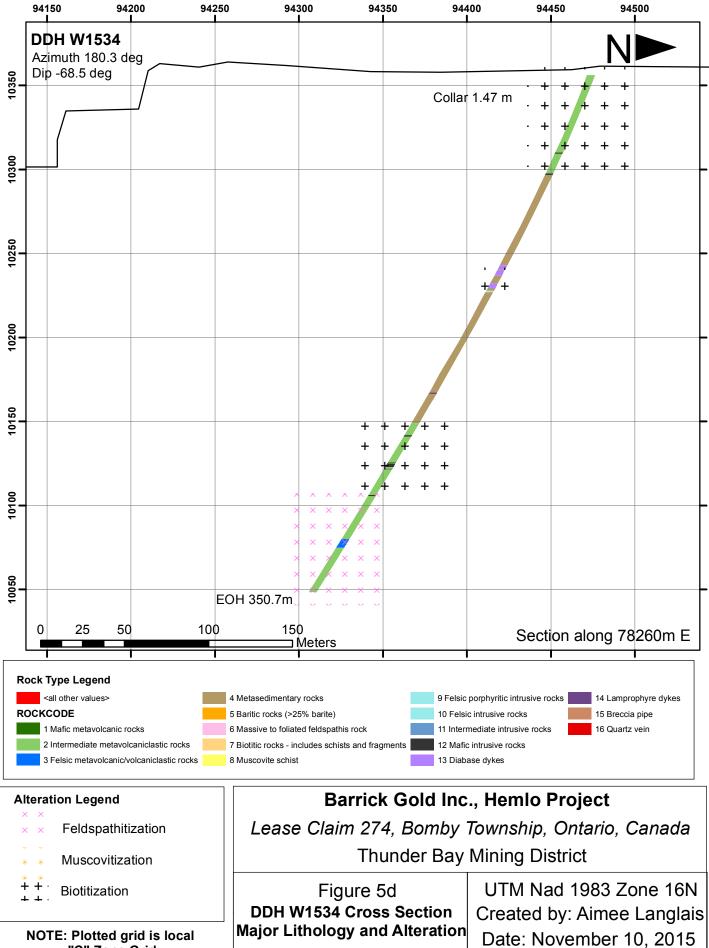


Legend	Barrick Gold Inc., Hemlo Project Bomby Township, Ontario, Canada Thunder Bay Mining District			
2015 Drillhole Collars 2015 Drillhole Traces	Figure 4 2015 Drillhole Traces Plan View	UTM Nad 1983 Zone 16N Created by: Aimee Langlais Date: November 13, 2015		









"C" Zone Grid

Appendix A

Hemlo Geology Logging Legend

2012

Hemlo Geology Legend



Williams Operating Cororation David Bell Mine Updated: 7/12/2012



GEOLOGY LEGEND

- **FROM TO** Defines the interval over which a particular rock type or characteristic occurs.
- **<u>ROCK TYPE</u>** Includes geological and structural units. May also include textural designations and/or minerals.

A: GEOLOGICAL UNITS AND SUBUNITS

REFER TO APPENDIX I

- 0) No Core
- 00) Casing
- 1) Mafic metavolcanic rocks
- 2) Intermediate metavolcaniclastic rocks
- 3) Felsic metavolcanic/volcaniclastic rocks
- 4) Metasedimentary rocks
- 5) Baritic rocks (> 25% Barite)
- 6) Massive to Foliated Feldspathic Rock
- 7) Biotitic rocks includes schists and fragmentals
- 8) Muscovite schist
- 9) Felsic porphyritic intrusive rocks
- 10) Felsic intrusive rocks
- 11) Intermediate intrusive rocks
- 12) Mafic intrusive rocks
- 13) Diabase dykes
- 14) Lamprophyre dykes
- 15) Breccia pipe
- 16) Quartz Vein

B: DESCRIPTORS

REFER TO APPENDIX I AND II

- a) coating or envelopes
- b) blebs
- c) fragmental
- d) disseminated
- e) quartz eyes
- f) feldspar phenocrysts
- g) interstitial
- h) schistose
- i) lenses/augen
- j) foliated

- n) shear
- o) brecciated
- p) pervasive
- q) massive
- r) red colouration
- s) feldspathic
- t) calc-silicate bands
- u) quilts or patches
- v) vein
- w) books



k) bandedl) laminatedm) nodules or spots

LC – lost core PC – popcorn – like phenocrysts

C: ROCK FORMING MINERALS OF UNITS AND SUBUNITS

x) sheeting

y) magnetic

z) tarnish and stain

Ac- Actinolite Ak – Ankerite Am – Amphibole Ah – Anhydrite Ap – Apatite As – Arsenopyrite Ba – Barite Bi – Biotite Bo – Bornite Ca – Calcite Cb – Carbonate Cd – Chloritoid Cl – Chlorite Cp – Chalcopyrite Hg – Cinnibar

- Dr Dravite Ep – Epidote FI – Fluorite Fx – Feldspar Gr – Graphite Gt - Garnet Pb – Galena Vg – Visible Gold Hm – Hematite Kf – Potassic Feldspar Ky – Kyanite Mg – Magnetite Mo – Molybdenite Mu – Muscovite Or – Orpiment Ph – Phlogopite Py – Pyrite
- Po Pyrrhotite Pn – Pyroxene Qz – Quartz Rc – Rhodochrosite Re – Realgar Ro – Roscoelite Ru – Rutile SI – Sillimanite St – Staurolite Sb – Stibnite Sp – Sphalerite Te – Tellurides Ti – Sphene To - Tourmaline Tr – Tremolite Ze – Zeolite

ALTERATION

Describe the type and intensity of the three most important alteration types.

Alteration	Type
Cx	Carbonatization
Cz	Chloritization
Ax	Amphibolitic Alteration
Ex	Epidotization
Rd	Reddish (Potassic/Hematitic)
Fx	Feldspathitization
Mx	Muscovite
Sx	Silicification
Ox	Oxidation



ALTERATION INTENSITY

W	weak	SI	strong to intense intense
WM	weak to moderate	I	
M MS S	moderate moderate to strong strong		

Shade and Colour Index for Mineral Description

dk med lt		dark mediui light	n	* *	(eg. 12 dykes) (eg. 8's)
	gy blu grn vio pnk brn rd yel blk wht		grey blue green purple pink brown red yellow black white		

GRAIN SIZE: Grain size description of rocks and/or minerals.

Abbreviations

Vfg	=	Very Fine Grained – indistinguishable
fg	=	Fine Grained = $\leq 0.5 \text{ mm}$
mg	=	Medium Grained = 0.5 – 1.9 mm
cg	=	Coarse Grained = $\geq 2 \text{ mm}$

- <u>FC:</u> Fracture count; defined as the average number of fractures in 1m of core for any particular unit.
- <u>RQD:</u> An estimate of RQD for the rock unit being described. This must be an integer from 0-100, with 100 being the most competent rock. Replaces competence scale in previous Legend.
- <u>SF:</u> Description and dip angle of STRUCTURAL FEATURE (S) in a unit. Dip is measured from a plane perpendicular to the core axis (core normal angle).



- FD folded FT – fault/slip GO – gouge
- CT contact CL – cleavage BD – bedding QV – quartz vein LN – lineation FR – fracture or joint SK – slickensides

FROM – TO Range or location (metres) of a structural feature.

MINERALOGY

Observed minerals described by mode of occurrence/texture and percentage of the total rock. Use the same guide as Part B: Rock Names (refer to Appendix I and II)

<u>ZONE</u> Used for highlighting information

MZ1	S	FW	FZ-1 N	FW
MZ2			FZ-2	
MZ3	Ν	HW	FZ-3 S	FWS



<u>APPENDIX I</u>

ROCK NAMES

Listed below are standard rock names which are to be used for all mapping and core logging. Local variations can be noted as comments in the log and can also be shown in the alteration and mineralogy tables. It must be recognized that all of the supra-crustal rocks at Hemlo are foliated and metamorphosed to some degree. This legend attempts to emphasize the most important features associated with the gold mineralization ie structure, sericite, k-spar and silica alteration, the presence of molybdenite and pyrite.

Equally important, faults should be logged/mapped as separate lithological units wherever they are recognized. The format is "rock"FT. This could be any lithological subtype, but faulted in some way. The intent here is to clearly identify potential ground control problems at an early stage. This includes gouge, closely spaced fracture zones and slips along which displacement has occurred. Lamprophyres always form planes of weakness and should always be logged as a major unit if greater than 10 cm wide in core.

Notes: The term "fragmental" is not meant to have any specific genetic connotation. It is used here as a field term to describe a rock consisting of pieces of rock within a fine grained matrix.

The term "breccia" refers rocks which are obviously the product of some sort of brittle deformation and/or intrusion or phreatic process.

- (1) Mafic Metavolcanic Rocks (Playter Harbour Sequence)
 - composed of amphibole (actinolite, hornblende, tremolite)
 - fine grained, dark greenish black (darker than intermediate rocks)
 - strongly magnetic except in chloritic sections
 - moderately to strongly foliated
 - includes pillowed flows and volcaniclastic sections, often difficult to distinguish in core.

1Am: Typical Mafic Volcanics

1Cln: Sheared, chloritic, mafic volcanics.

1FT: Fault Zone Usually contains significant sections of gouge material.

(2) Intermediate Volcaniclastic Sediments

- generally thickly bedded, equigranular/massive with local banded/laminated sections and

local tuff/lapilli-tuff sections. Strongly foliated.

- has greater % of disseminated carbonate than the metasediments, often dark brownish in colour.
- likely originally a series of reworked volcaniclastic debris flows/lahars.
- occasional thin beds of calc-silicate banded sediments.
- composed mostly of feldspar, biotite and quartz with minor garnet



2Bi: Biotitic Volcaniclastics

Fine grained, weakly to strongly foliated, thickly bedded brownish volcaniclastic sediments. Moderate to strong calcite alteration throughout. Often has weak to moderate sericite alteration.

2Mu: Sericitic Volcaniclastics

Fine grained, weakly to strongly foliated, thickly bedded tan coloured volcaniclastic sediments with moderate to strong sericite (muscovite) alteration. Moderate to strong calcite alteration throughout. Often has weak to moderate biotite alteration

2kt: Calc-silicate Banded Volcaniclastics

Interbedded fine grained volcaniclastic material and calc-silicate banded sediments.

2c: Fragmental Intermediate Volcaniclastics

Fine to medium grained, variably biotitic and sericitic matrix with > 5% fragments 5-50mm long. Heterolithic, but fragments are most often bone white and feldspathic.

2s: Feldspathized Intermediate Volcaniclastics

Fine grained, moderately to strongly feldspathic, biotitic and calcitic unit. Can be medium to dark grey to brownish. May be intermixed with 2Bi.

2cs: Feldspathized Fragmental Intermediate Volcaniclastic

Fine grained, moderately to strongly felspathic, biotitic, sericitic and calcitic matrix. With >5% fragments 5-50mm long. Heterolithic, but fragments are most often bone white and feldspathic.

2FT: Fault Zone

(3) Felsic Metavolcanic/Volcaniclastic Rocks

- light coloured felsic rock with a porphyritic texture
- defined by quartz eyes and/or feldspar phenocrysts and/or fragments
- composed of feldspar (30-60%), quartz (10-15%) within a fine grained matrix consisting of variable amounts of sericite, biotite and quartzo-feldspathic minerals.

- weakly to strongly foliated, variable intensities of sericite, biotite and feldspathic alteration.

- carbonate is absent or else present in small amounts (<5%).

3e: Felsic Tuffite

Very fine grained, light grey to grey green finely laminated siliceous rock (may in part be chemical sediments/cherts) containing narrow biotite schist interbeds. 3-5% quartz eyes 1-3 mm long are common. Finely disseminated pyrite (1-3%) along bedding planes.

3er: Hematized Feldspathic Schist

Fine grained to aphanitic pink to quite red, hematized and / or potassium feldspar rich schist which is typically low grade ore to barren. Chlorite occurs as fine clots and on fracture planes. Pyrite content is generally less than 2%.



3f: Moose Lake Porphyry

3fMu: Sericitic (Muscovite-Altered) MLP.

3fs: Feldspathized/Silicified MLP

Fine to medium grained, light grey, with moderate to strong feldspathization and silicification. Feldspar phenocrysts are still visible, but quartz phenocrysts are generally obliterated. Often weakly to moderately sericitic. Often contains 1-5% pyrite and minor molybdenite. May constitute ore.

3sr: Feldspathized/Hematized MLP.

Fine to medium grained, hard, feldspathic with a distinctive pinkish-red colour due to moderate to strong Kf-Hm alteration. Overlaps with, but generally overprints sericite and biotite alteration. Most common in the FW of B Zone, where it is almost always waste. Also present near chloritic shears and felsic dykes (9f) in the C Zone, where it may constitute part of the ore.



3sPy: Pyritic Feldspathization

Fine grained, light grey feldspathization with fracture filling and disseminated pyrite. Mo may also be present, but Py dominates. VG or gold-telluride common along fractures.



3sMo: Molybdenitic Feldspathization

Fine grained, light to dark bluish grey feldspathization/silicification. Generally has a hard, pearly lustre. Py may also be present, but Mo dominates.



3c: Fragmental Felsic Volcanics.

Strongly foliated, light grey rock, consisting of fine grained, sericitic or biotitic matrix with up to 50% heterolithic fragments from 5 to >50mm long. Fragments commonly have feldspar and quartz phenocrysts, similar in appearance to the MLP. 5% dark green, mafic fragments may also be present.



3cs: Feldspathized Fragmental Felsic rocks.

As above, but with moderate to strong feldspathization and variable sericite, biotite and carbonate. Generally has a hard, pearly lustre. Molybdenite and 2-10% pyrite are common. Often constitutes ore.



3cRo: Quartz Pod and Green Mica Zone

Medium to coarse grained light grey sericite and/or muscovite rich schist containing abundant green mica and quartz veins. Up to 15% pyrite and trace MoS_s . Rare stibnite, barite and realgar. Typical high grade ore with visible gold.

3sMu

Fine grained, strongly feldspathic, moderately to strongly sericitic, light grey rock. Variable pyrite and molybdenite.

3FT: Fault Zone

(4) Metasedimentary Rocks

- generally a banded/or laminated politic rock primarily composed of quartz, biotite and feldspar usually containing calc-silicate (green) bands. Usually fine to medium grained.

- in H.W. sediments above the main zone the primary metamorphic minerals include kyanite, garnets, staurolite and minor arsenopyrite.



4k: Metapelite

Fine to medium grained, dark grey to black biotite sericite schists and minor gneisses containing abundant staurolite and garnet with less frequent chloritoid and sillimanite.

4kt: Calc-silicate Banded Sediments

Very fine grained to fine grained, banded brown, green or purplish, laminated sediments and dark green calc-silicate bands. Generally biotitic, with varying amounts of garnet, staurolite, kyanite or silimanite.

4q

Fine grained, thickly bedded, dark grey to brownish grey sediment. Lacks pervasive carbonate. May contain garnet, kyanite, staurolite or sillimanite. Locally contains fine grained feldspathic fragments. Locally contains calc-silicate bands.

4Mu: Sericitic Sediments

Moderate to strong sericite alteration. Parts readily along the lamination/foliation.

4MuMo: Mineralized Metasiltstone

Fine to medium grained, dark grey to brown quartz biotite sericite schists and gneisses. Typically thickly bedded sediments with scattered MoS₂ traces.

4s: Feldspathic Sediments

Moderate to strong feldspathization/silicification. Laminated sediments are altered to a bone white colour.

4Am: Amphibolitic Sediments

Present as part of the FW sediment package. Laminated and well foliated. Quartzofeldspathic and light grey in colour, hard. It is typified by small quartz eyes and light coloured streaks and bands which contain coarse amphibole crystals.

4jAm: Mafic Wacke

Medium to coarse grained, olive to dark green hornblende schists within the HW metasedimentary sequence.

4FT: Fault Zone



(5) Baritic Rocks

- > 25% barite. White to light grey barite occurring as laminate, stringers and veins both parallel to and cutting foliation.

- usually associated with 6 unit in the B Zone.
- usually has varying amounts of pyrite, molybdenite.



5FT: Fault Zone

(6) Feldspathic Rocks

- the "6" unit should be reserved for the most intensely feldspathized rocks
- massive or brecciated; fine grained; light-medium grey coloured unit (microcline rich rock)
- composed mainly of feldspars, silica
- commonly contains barite, pyrite, molybdenite and vanadium rich mica
- molybdenite is the best indicator to determine grade
- pyrite is the most common sulphide mineralization followed by molybdenite, stibnite and realgar, orpiment, arsenopyrite and cinnabar.

6Py: 6 unit with pyrite as the main sulphide mineral, little to no Mo. Includes semi-massive to massive pyritic bands within the 6 unit.

6PyMo: Typical B Zone ore material. May contain up to 5% barite.



6BaPyMo: Typical B Zone ore with 5-25% barite.

6Mo: 6 unit with molybdenite as the main sulphide mineral.

6n: Chloritic, biotitic or sericitic shear within 6 unit. May show Mo, Py or other oreassociated minerals along the shear planes (to be noted separately in the Mineralogy Table).

6v: Quartz veined or silica-flooded zone (>25% quartz veins).

6Mu: Sericitic 6 unit

Strongly feldspathic material with moderate to strong sericite (muscovite) alteration. Mo and Py content variable.

6o: Brecciated 6 unit.

Feldspathic rock that has intense barite and/or anhydrite in anastomising veinlets/stringers

6FT: Fault Zone





(7) Biotite – Rich Breccia

- similar to (2) unit mineralogically, but confined in areal extent in B Zone.

biotitic matrix supporting sub-angular, heterolithic fragments which includes ore
 ambiguous relationship with B Zone ore, as the unit appears to include ore

fragments, but is

also locally mineralized in the matrix

- often used for thin highly altered or deformed intermediate units; often schistose of indeterminate origin

- also used for biotite intermediate fragmental unit @ east end of A Zone

7FT: Fault Zone

(8) <u>Muscovite Schist</u>

- Schistose, fine grained, light grey to light yellowish coloured rock.
- Usually has fine quartz eyes, < 1mm in diameter.
- Often pyritic and may also have weak feldspathization, local roscoelite.
- Tourmaline is common as randomly oriented crystals, concentrated along foliation planes.

8e: Quartz-eye Muscovite Schist

Schistose, fine to medium grained, light grey to light yellowish coloured matrix with quartz augen 4-6mm long. May show ghosts of highly altered feldspar phenocrysts and lithones of less deformed material. Generally interpreted as sericitized and deformed MLP.

8s: Feldspathized/Silicified Muscovite schist

Strongly foliated to schistose, fine to medium grained quartzo-feldspathic rock with distinct feldspathization and/or silicification. Roscoelite common. Often pyritic and may also have significant Mo.

8FT: Fault Zone

Any 8 unit showing prominent faulting, fracture zones or discrete gouge seams. Common near the HW sediment contact and 8e (MLP) contacts.

(9) Felsic Porphyry

- relatively late felsic intrusive rock with feldspar phenocrysts
- light to medium grey.
- occurs as sill-like units parallel to foliation and as cross-cutting dykes.

9f: Granodioritic porphyry

White subhedral to euhedral medium grained feldspar within a groundmass of black biotite and quartz. May be massive or weakly to moderately foliated. Usually light to medium grey in colour.

9PC: Popcorn Porphyry

Medium to coarse grained porphyritic and glomeroporphyritic white feldspar within a fine grained dark groundmass.

HEMLO GEOLOGY LEGEND



9Mu: Sericitized 9f

Moderately sericitized, often foliated, almost white to creamy coloured porphyritic intrusive. Often contains milky white to glassy quartz veins.

9FT: Fault Zone

(10) Felsic Intrusive

- other felsic intrusive rocks. Comments should include a good description of the unit being considered.

- includes: Granite, Granodiorite and Granitic gneiss

- also applies to a late, steeply south dipping, crowded feldspar porphyry dyke occurring in the C Zone Pit.

10FT: Fault Zone

10Kf : Pegmatite

10q: Aplitic sills

Pale grey to white, fine grained, massive felsic sills and dykes with abundant fine grey porphyroblasts.

(11) Intermediate Intrusive

- could be porphyritic
- medium to dark grey, fine grained matrix
- biotite rich matrix
- typically occurs as sills and dykes

(12) Mafic Intrusive

- dark grey to black to green
- amphibole or chlorite rich
- dykes are typically less than 1 metre thick.

- generally parallel or sub parallel to foliation but locally dip steeply to moderately to the South and are locally folded.

12FT: Fault Zone

Can be used for narrow (5-10 cm) chloritic, sill-like structures found in C-Zone.

(13) Diabase

- medium to fine grained dyke composed of amphiboles and feldspar.

- generally massive and equigranular

(14) Lamprophyre

- composed of carbonates, felted biotite, magnetite and pyroxenes
- cross cutting to foliation
- should be logged as a major unit if greater than 10 cm wide in core.



(15) <u>Breccia</u>

- rock made up of highly angular, coarse fragments lying in a fine to medium grained mafic matrix. Unit is confined to C Zone and is kept in the legend for historical purposes.

(16) Quartz Vein

APPENDIX II

STRUCTURAL/TEXTURAL DEFINITIONS

- (a) coating or envelopes (i.e. biotite)
- (b) blebs non circular occurrences

(c) fragmental - describe the size (mm), composition, contacts of the fragments; compare fragment composition to the matrix composition

- % how often they occur
- broken material moved from place of origin

(d) disseminated - mineral grains scattered throughout the matrix in a non uniform manner, compared to pervasive which is evenly dispersed throughout the unit

- (e) quartz eyes note size (mm) and %
- (f) feldspar phenocrysts note size (mm) and %
- (g) interstitial occurs between grains
- (h) schistose parts readily along foliation (ie. (8) unit)
- (i) lenses/augen/eyes note size (mm) and %
- (j) foliated minerals are random in one plane, but does not necessarily part that way most obvious for mica minerals
- (k) banded > 1 cm thick bands- alternating layers of different composition
- (I) laminated < 1 cm thick bands
- (m) nodules/spots circular or near circular occurrences
- (n) shear incremental displacement (step like displacement)- ductile movement

HEMLO GEOLOGY LEGEND



- usually mud/or clay
- movement taken up by parallel planes as in displacement of a deck of cards
- (o) brecciated fragments usually are sharp, angular and coarse
 - fragments/matrix are of 2 different compositions or textures
 - fragments are in a matrix which is a later intrusive or has been disrupted by later mineralization or tectonic activity
- (p) pervasive uniformly disseminated throughout the unit
 not necessarily referring to a mineral could be pervasive alteration/weathering etc.
- (q) massive homogeneous unit that lacks any linear features (ie. dykes may be massive) usually equigranular
- (r) red colouration red in colour (visually) (ie. 3er)
 red colouration due to hematite dusting in feldspar crystals
- (s) feldspathic containing feldspar as the principal group of minerals (orthoclase, microcline, plagioclase, albite, anorthite)
 - refers to abnormally hard, often lighter coloured sections of a unit, where the alteration is due to feldspathitization and/or silification. It is generally not possible to visually distinguish between these two alterations.
- (t) calc-silicate bands high % of carbonates
 - commonly found in metasediments
 - fine to medium grain, green in colour
- (u) quilts/or patches similar to a bleb but with transitional contacts
- (v) vein a tabular or sheet-like body of minerals which has been intruded into a joint or fissure, or system of joints and fissures, in rocks, often irregular and discontinuing.
- (w) books layering of a mineral (stack) (ie. biotite; muscovite)
- (x) sheeting a mineral that occurs along slip surfaces (ie. molybdenite or mica)
- (y) tarnish or stain very thin coating or discolouration on a surface

Appendix B

DDH W1530 Drill Logs

<u>Hole ID:</u> W1530 Project Code: WOC_Pit Mining Land Number: Lease Claim 274 Logged By: alanglais Planned by: bleduc Hole Depth: 275.9m Collar Depth: 3.77m Collar Coordinates: 578203mE 5394715mN (UTM NAD83) Azimuth: 180 degrees Dip: -48 degrees Core Size: NQ Drilling Start Date: 08-Sep-2015 Drilling End Date: 10-Sep-2015 Drilled by: Boreal Drilling

ł	Interva	ar (111)	NA-S-C	,	C						
oggodData	From	То	Major Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intonsity	Mineralization	Comments
oggedDate				ROCK COlour	Size	Texture 1	Intensity	Texture 2	Intensity	wineralization	Comments
19-0ct-15	0	3.77	0 2kt	diau	v fa						kt handed and light handed metaceds (int velcaniclastics
19-Oct-15	3.77	14.75	ZKt	dkgy	v-fg						kt banded and light banded metaseds/int volcaniclastics mostly vfg bi rich volcaniclastics; mod foliation otherwise massive;
											minor pink calcite/carbonate veins/ otherwise homogeneous;
19-Oct-15	14.75	29.34	2Bi	dkgy	v-fg						possibly 4q - v weak to weak cx alt
19-0ct-15	29.34	36.48	201 20	dkgy	v-ig v-fg	с	MS				true fragmental v light grey porph fragments; vfg dark matrix
19-001-15	29.54	50.46	20	икду	v-ig	L	1015				kt and light banded metaseds; minor overprinting alteration from
											healed fractures; could be classified as 2Bi in places or 4q; kt
19-Oct-15	36.48	42.7	2kt	dkgy	v-fg						banding relatively weak
15 000 15	50.40	72.7	Zitt	ungy	V 18						mostly vfg bi rich interval w light banding and weak to mod
											fragmental texture (appear to be true fragments); more strongly
19-Oct-15	42.7	52.58	2c	dkgy	v-fg	с	WМ				fragmental intervals also appear slightly porphyritic
				0,	0						pink altered faulted interval (along foliation) within 2 or 4 - probably
19-Oct-15	52.58	53.26	2FT	pnk	vfg						trransition between two
											2 or 4kt; variable cx alteration; overprinting washed out grey-green
19-Oct-15	53.26	60.51	2kt	dkgy	v-fg						alt from healed fractures;
											small interval w small light fragments and porph texture; could be
19-Oct-15	60.51	62.93	2c	medgy	v-fg	с	М	f	MS		or 2
19-Oct-15	62.93	68.77	4kt	medgy-dkgy	v-fg						transitional 2/4kt; mod to strong banding some light some kt;
											logged as 4k in other holes; could be combination of 4kt 4k and
											various 2 codes; appears somewhat porph or volcaniclastic v weak
19-Oct-15	68.77	77.28	4k	dkgy	v-mg						rare fragments; pink altered carbonate vns throughout (v narrow)
19-Oct-15	77.28	78.24	12	dkgy	fg						massive 12 w faulted lower contact
			_	1	_						
											strongly banded metaseds w kt and light banding; sig pnk alt and
19-Oct-15	78.24	89	4kt	medgy	v-fg						overprinting grey-green alt; slight porph (?) texture in small interva
											similar to previous 4k unit with eihter porph or volcaniclastic textur
19-Oct-15	89	92.64	4k	dkgy	v-mg						throughout; lacks fragments
											v dark banded metaseds w strong banding and weak to mod
19-Oct-15	92.64	97.99	4kt	dkgy	vfg						overprinting alt from healed fractures
											4c; predominantly pseudofragmental w small intervals that
											appear to have true fragments; fragments mostly cm scale w some
											smaller; kt banding throughout; fragments stretched; overprinting
											grey green alteration from healed fractures; bi rich matrix w weak t
19-Oct-15	97.99	116.81	2c	dkgy	v-mg	С	М				mod fx alt throughout
											strongly altered dyke; original composition impossible to tell; best
19-Oct-15	116.81	117.31	11	ltgy	v-fg						guess is 11 based on texture and contacts
											4c both true fragments and pseudofragments mostly cm scale ar
											stretched, some smaller; true fragments porphyritic; mod to stron
19-Oct-15	117.31	121.56	2c	dkav			MS				bx and chl alt; some intervals contain very few fragments but have stronger banding
19-001-15	117.51	121.50	20	dkgy	v-mg	С	1015				highly variable metased interval w minor kt banding; minor light
											banding; minor volcanicalstic texture and some vfg massive
19-0ct-15	121.56	128.92	4k	dkgy	v-fg	k	w				intervals; overprinting alt from healed fractures
19-0ct-15	121.50	128.52	4FT	dkgy	v-ig	K	~~~				2 cm gouge w pink alt
19-001-13	120.92	129.25	461	ukgy							*4c* large variably pseudofragmental interval; (weak to mod-
											strong); both stretched kt banding and overprinting kt banding;
											some fragments mod fx altered; fragments mostly small cm scale;
											some small intervals contain mostly mm scale (more volcaniclastic
19-Oct-15	129.23	143.9	2c	dkgy	v-mg	с	м				appearance or porph)
		1.5.5		10,1	- ···o						kt banded metaseds; light banding and alteration picking up (mx/fx
19-Oct-15	143.9	154.9	4kt	dkgy	v-fg						minor po and py; no fragments at all
				01	<u>م.</u> .						kt banded metaseds w weak to mod
20-Oct-15	154.9	159.2	4kt	medgy-dkgy	v-mg						pseudofragmental/volcaniclastic texture in most places
					0						strong kt banding; mod to strong alt (fx and overprinting from
20-Oct-15	159.2	165.38	4kt	dkgy	v-fg						healed fractures);
			-		0						pseudofragmental/volcaniclastic texture throughout; stretched
											fragments; smaller cm scale fragments and mm scale; fragments
											slightly more fx altered w more bx rich matrix; mod cx; minor
20-Oct-15	165.38	171.85	2c	dkgy	v-mg	с	w				retrograde gt
					0						
											Bi rich 2/4; weak to mod cx content; v weak retro gt (?); possibly 4q
											or very weakly banded 4kt; more coarse grained and less bi rich tha
20-Oct-15	171.85	183.12	2Bi	dkgy	fg						previous 2Bi intervals; minor gt at lower contact
-											mx/bx banded metaseds/int volcaniclastics w small gt; possibly
20-Oct-15	183.12	183.91	2Bi	medgy-dkgy	fg					Gt	2mu; hard to tell if light material is mu or fx
20-Oct-15	183.91	184.38	2FT								faulted 2 at 7cm epidote vein
	184.38	186.86	2Bi	medgy-dkgy	fg						cont of previous 2Bi w py seams
20-Oct-15				<u>.</u>	~		1				
20-Oct-15 20-Oct-15	186.86	187.12	2FT								10 cm gouge
	186.86 187.12	187.12 188.41	2FT 2Bi	dkgy	fg						cont of previous 2Bi

20-Oct-15	188.64	199.73	4q	dkgy	v-fg					2/4; very difficult ot identify; mostly massive or light coloured banding; vfg to fg; v little cx alteration and what exists is in retrograde blebs; v v minor py
20-Oct-15	199.73	201.46	12	blk						massive
20-Oct-15	201.46	204.69	4q	dkgy	vfg					cont of prev 4q
20-Oct-15	204.69	227.55	2Bi	medgy	v-fg	с	w			strong bx and cx alt (overprinting) w minor overprinting chl; minor mm scale fragmental texture in small intervals; alteration causes slightly blue-grey colour
			_		ŗ					fragment size increases w depth - mostly cm scale w minor mm scale clasts; large cm scale right at lower contact; bi rich matrix w v light strongly altered fragments (occasionally buff coloured); mod cx in
20-Oct-15	227.55	231.36	2c	brn	v-fg	С	SI			matrix
20-Oct-15	231.36	233.06	11	dkgy	v-fg					massive; possibly a vfg 12
										v strong bi and cx alteration w possible minor chl; v weakly
20-Oct-15	233.06	237	2Bi	dkgy	v-fg	С	W			fragmental (stretched mm scale)
										v tightly spaced mm scale fragments (fx altered); strong bi and cx alt
										in matrix; narrow translucent qz veins throughout; strong fx alt and
20-Oct-15	237	240.16	2cs	medgy-dkgy	vfg	С	MS			min in last 1/2 metre
20-Oct-15	240.16	247.35	2c	dkav	y fa	C	WM			v strong bi and cx alt; minor py; v small fragments throughout most of interval; areas with less fragments have stronger cx alt maybe just overprinted?; several translucent qz vns
20-001-13	240.10	247.55	20	dkgy	v-fg	ι	VVIVI			strongly altered 2; bx rich; strong fx alt; strong cx alt; appears slightly
20 Oct 15	247.25	240 14	2.	مالدهم						mo mineralized; cx seams appear almost like matrix around
20-Oct-15	247.35		2s	dkgy blk	vfg					fragments; but no fragments visible
20-Oct-15	249.14	249.37	14		fa					massive and competent
20-Oct-15	249.37	252.13	2Bi	dkgy	v-fg					fg v bi rich almost massive interval; mod cx alt
20-Oct-15	252.13	255.35	12	blk						relatively coarse grained and massive w v narrow ca vns
21-Oct-15	255.35	257.67	2Bi	dkgy	v-fg					2Bi/2s; v strong bx and cx alt w boud qz; strong fx alt; highly strained
21-Oct-15	257.67	258.32	16	wht	vfg					qz vn/12 dyke/possibly fault zone w v narrow pink calcite at upper contact
21-Oct-15	258.32	261.21	2Bi	dkgy	fg					less altered and strained than prev 2Bi interval; still strong bi and perv cx; probably sed origin w coarse grains or volcaniclastic texture
										bedding visible; mod mx alt; bi and cx alt; poss chl alt; minor
21-Oct-15	261.21	273.1	4Mu	medgy-dkgy	fg					overprinting grey-green alt from healed fractures
21-Oct-15	273.1	275.9	4kt	dkgy	v-fg	с	w	k	w	possibly fragmental banded metaseds; possibly pseudofragmental; strong alt and deformation makes ID difficult
21-Oct-15	275.9	276	0							

DDH W1530 Minor Lithology Log

Hole ID:W1530Project Code:WOC_PitMining Land Number:Lesse Claim 274Planned by:bleducLogged By: alanglaisCollar Depth:3.77mHole Depth:275.9mCollar Coordinates:578203mE5394715mN (UTM NAD83)Azimuth:180 degreesDip:-48 degreesCore Size:NQDrilling Start Date:08-Sep-2015Drilling End Date:10-Sep-2015Drilled by:Drilled by:Boreal DrillingKarlow Sep-2015

Inter	val (m)				
From	То	Minor Rock Name	Rock Colour	Grain Size	Major Surrounding Rock Type
250.36	250.46	11	blk	fg	2Bi

Hole ID: W1530Project Code: WOC_PitMining Land Number:Lease Claim 274Planned by: bleducLogged By: alanglaisCollar Depth: 3.77mHole Depth: 275.9mCollar Coordinates:578203mE 5394715mN (UTM NAD83)Azimuth:180 degreesCore Size: NQDitiling Start Date: 08-Sep-2015Drilling End Date:10-Sep-2015Drilled by:Boreal Drilling

Interva	(m)							[Discontii	nuity Set	1			Dis	sconti	inuity Set	2			Di	scontin	uity Set 3	3	
		Total Recovery	RQD Measurement	Rock		Number of	Alpha						Alpha						Alpha					
From	То	(m)	(m)	Strength	Weathering	Discontinuity Sets	Angle	Frequency	Infill	Length	Roughness	Туре	Angle	Frequency	Infil	ll Length	Roughness	Туре	Angle	Frequency	Infill	Length	Roughness	Туре
0	6	2.23	2	R4	W1	J2	59		N	3	Rough	FO	56	2	N		Rough	J	-			_	-	
6	9	2.96			W1	J2	62		N		S rough	FO	43		N		Rough	J						
9	12	3.01	2.91		W1	J2	52		N		S_rough	FO	51	-	N		Rough	1						
12	15	3.01				J2.5	65		N		Smooth	FO	41		N		Rough	1	22	1	N	3	S_rough	1
15	18	2.99			W1	J2.5	59		N		Rough	FO	52		N		Rough	1	30		N		Rough	
13	21	3.28			W1	J2.5	68		N		Rough	FO	57		H3		Rough	1	23		H3		Rough	
21	24	2.97				J2.5	55		N		Smooth	FO	36		N		Rough	1	31		N		Rough	1
24	27	2.98			W1	J3	62		N		Smooth	FO	33	•	H3		Rough	1	16		N		V_rough	
27	30	2.93			W1	J2.5	60		N		S_rough	FO	49		N	_	Rough	1	10		H3		Rough	1
30	33	3.12			W1	J4	58		S3		S_rough	FO	62	-	N		S_rough	1	37		N		Rough	1
33	36	2.81			W1 W1	J1	53				Smooth	FO	02	2			5_rough	J	57	1		5	Nough	1
36	39	2.81			W1 W1	J2	63				Smooth	FO	55	E	N	2	Rough	1						
39	42	3.01		_	W1 W1	J1	59		35 N		S rough	FO	55	J	IN	5	Kough	J						
42	42	2.99				J1.5	55		N		Smooth	FO	30	1	N	2	Rough	V						
												FU					Rough	V						
45	48	3.02			W1	J2	48		N		Rough	1	49		N N		Rough	1						
48	51	3.02				J1.5	40		N		S_rough	J	44				Rough	J	50		62	2	c 1	-
51	54	2.98			W1	J2.5	58		S3		S_rough	FO	30		N		S_rough	J	58	2	S2	3	S_rough	
54	57	2.88		_	W1	J2	62		N		Rough	FO	36		N		Rough	J						4
57	60	3.09			W1	J2	62		N		S_rough	FO	54	3	N	3	S_rough	J						4
60	63	3.03			W1	J1	55		N		S_rough	J												4
63	66	2.83			W1	J2	66	13			S_rough	FO	53		Ν		Rough	J						
66	69	3.12				J2.5	65				Rough	FO	55	-	Ν		Rough	J	25		H3		S_rough	J
69	72	3.03		_	W1	J2.5	67		Ν		Rough	FO	42		Ν		Rough	J	41		H3		Rough	1
72	75	2.94				J2.5	65		N		Rough	FO	26		Ν		Rough	J	38		H2		S_rough	J
75	78	3.07				J2.5	60		N		Rough	FO	25		H3		S_rough	J	47		H3		Rough	CO
78	81	2.91				J2.5	68				Smooth	FO	55		Ν		Rough	J	28	1	H3	3	V_rough	J
81	84	3.07	2.8		W1	J2	64	11	S3		S_rough	FO	26	2	S3	3	V_rough	J						
84	87	3.02			W1	J1	65	1	Ν			FO												
87	90	3.02			W1	J2	65		Ν			FO	45		H3	3	Rough	J						
90	93	2.96			W1	J2	65		S3	3	Rough	FO	60		Ν		Rough	J						
93	96	2.99	2.99		W1	J2	61		Ν	3	S_rough	FO	30	2	Ν	3	V_rough	J						
96	99	2.97	2.91	. R4	W1	J1	65		Ν	3	S_rough	FO												
99	102	3.09	3.01	. R4	W1	J2	65	5	Ν	3	Rough	FO	35	4	Ν	3	Rough	J						
102	105	2.92	2.78	R4	W1	J2	61	10	Ν	3	S_rough	FO	30	1	Ν	3	V_rough	J						
105	108	3.04	2.9	R4	W1	J2.5	70	8	Ν	3	Rough	FO	47	4	Ν		Rough	J	33	1	H3	3	Rough	J
108	111	3.1	3.03	R4	W1	J2	61	7	Ν	3	Rough	FO	29	1	H3	3	Rough	J						
111	114	2.85	2.85	R4	W1	J1	66	5	Ν	3	S_rough	FO												
114	117	3.07	2.96	6 R4	W1	J2.5	64	3	Ν	3	Rough	FO	21	2	H3	3	Rough	J	13	1	H3	3	Rough	J
117	120	2.9	2.9	R4	W1	J1	59	2	N	1 1		FO												
120	123	3.14				J2.5	47		N			FO	50	2	N	3	Rough	J	14	2	H3	3	V_rough	J
123	126	3			W1	J2	60	5	S3		-	FO	42		N		Rough	J						
126	129	2.9				J2.5	60					FO	40	2	N		Rough	J	36	1	H3	3	V_rough	J
129	132	2.88			W1	J2	60					FO	38		N		Rough	J						
132	135	3.03			W1	J2	57		N	1		FO	33		N		Rough	J						
135	138	2.91			W1	J2	64		N		S_rough	FO	40		N		S_rough	J						
138	141	3.04			W1	J1	57					FO	_											
141	144	2.85				J2	61					FO	35	2	N	3	V_rough	J						
144	147				W1	J2	60		N			FO	34		N		Rough	J						
147	150	3.07				J2	53					FO	42		N		Rough	j l						
	150				W1				N			FO	72	1				-						
150	153	2.97	2.9	R4	W1	J1	58	8	N	3	S_rough	FU												

153	156	2.95	2.86	R4 W1	J2	54	4 N	3 Rough FO	24	1 H3	3 Rough J			
156	159	3.01	3.01	R4 W1	J2	62	1 N	3 S_rough FO	68	1 N	3 S_rough J			
159	162	2.99	2.82	R4 W1	J2	69	6 N	3 S_rough FO	35	4 N	3 V_rough J			
162	165	3.02	3.02	R4 W1	J2	71	7 N	3 S_rough FO	27	1 N	3 S_rough J			
165	168	3	3	R4 W1	J1	62	5 N	3 S_rough FO						
168	171	3	3	R4 W1	J2	69	2 N	3 S_rough FO	44	1 N	3 S_rough J			

Appendix C

DDH W1531 Drill Logs

Hole ID:W1531Project Code:WOC_PitMining Land Number:Lesse Claim 274Planned by:bleducLogged By: alanglaisCollar Depth:1.79mHole Depth:234.1mCollar Coordinates:578233mE 5394710mN (UTM NAD83)Azimuth:180 degreesDip:-48 degreesCore Size:NQDrilling Start Date:11-Sep-2015Drilling End Date:13-Sep-2015Drilled by:Drilled by:Boreal Drilling

	Interva	ıl (m)								
			Major Rock		Grain					
LoggedDate	From	То	Name	Rock Colour	Size	Texture 1	Intensity	Texture 2	Intensity	Comments
28-Sep-15	0	1.79	0							
28-Sep-15	1.79	2.15	0							
										appearance of kt banded metased but with higher than typical bi
28-Sep-15	2.15	10.46	2kt	dkgy	v-fg					and cx content
										weakly banded; mostly massive interval; cx content indicates 2
										but could be classified as 4q in some logging; v strong bx and mod
28-Sep-15	10.46	25.75	2Bi	dkgy	v-fg	k	w			to strong cx
28-Sep-15	25.75	26.34	11	dkgy	f-mg					massive 11 w slight rd alt
28-Sep-15	26.34	27.4	2Bi	dkgy	v-fg					as above
										vfg dark grey to black bx rich matrix w widepsread porphyritic
										light grey to white fragments; less overprinting visible cx alt than
										2c units seen in previous holes; fragments range from 1cm -
28-Sep-15	27.4	34.31	2c	dkgy	v-fg	с	М			~10cm
28-Sep-15	34.31	38.53	2Bi	dkgy	v-fg	k	W			weakly banded bx and cx rich interval
28-Sep-15	38.53	39.05	12	dkgy	v-fg					massive
										majority of interval altered to green-grey colour by overprinting
28-Sep-15	39.05	60.1	4kt	medgy	v-fg					alteration from healed fractures
28-Sep-15	60.1	60.51	11	blk	fg					massive
28-Sep-15	60.51	63.1	4kt	medgy	v-fg					bt rich w light banding
										slight porphyritic appearance (coarse sed grains?); v little
28-Sep-15	63.1	70.48	4q	medgy-dkgy	v-mg					banding; weak to mod foliation mostly massive;
28-Sep-15	70.48	75.77	4q	Itgy-medgy	v-mg					like above
29-Sep-15	75.77	93.44	4kt	medgy-dkgy	v-fg					minor kt banding
29-Sep-15	93.44	95.99	4kt	dkgy	v-fg	PS	М			pseudofragmental banded metaseds
29-Sep-15	95.99	101.47	4kt	ltgy-dkgy	v-fg					minor kt banding and mod to strong light banding
										green-grey altered pseudofragmental banded metaseds w white
29-Sep-15	101.47	105.3	4kt	grngry	v-fg	PS	М			altered fragments
29-Sep-15	105.3	117.4	2c	dkgy	v-fg	С	WM	PS	М	*4c* weak to mod altered fragments; some true
29-Sep-15	117.4	118.15	2FT							faulted 2c (faulted 4c)
										weakly pseudofragmental 4kt w some rd alt from healed fracture
29-Sep-15	118.15	130.78	4kt	dkgy	v-fg					zones
										4c like previous 2c interval; consists of true fragments AND
29-Sep-15	130.78	145.71	2c	dkgy	v-fg	t	М			pseudofragments; mod kt banding
										mod kt bands and light bands; several large massive beds;
29-Sep-15	145.71	153.68	4kt	dkgy	v-fg					significant overprinting grey-green alt from healed fractures
										strong alterationl well banded and high frequency of breaks along
29-Sep-15	153.68	154.62	4FT	Itgy-medgy	vfg					foiation with one gouged fault plane ~1cm wide @ 153.9
29-Sep-15	154.62	172.5	4kt	medgy-dkgy	v-fg					bi rich 4kt
29-Sep-15	172.5	174.1	12	blk	fg					massive
					-					weakly fragmental v bi rich unit w weak to mod cx alt; could be
29-Sep-15	174.1	181.2	2Bi	dkgy	v-fg	C	W			logged as 4q; fragments stretched
30-Sep-15	181.2	210.77	4kt	medgy-dkgy	v-fg	PS	W			relatively massive
30-Sep-15	210.77	220.46	2Bi	dkgy	v-fg					pervasive cx alt picks up
30-Sep-15	220.46	224.18	4kt	medgy-dkgy	v-fg					possibly fragmental interval
										2/4; mod to storng cx alt w weak overprinting chl alt; v strong bi
30-Sep-15	224.18	232.25	2Bi	dkgy	v-fg					alt; possible weak fragments?
										slightly less bx alt and slightly more fx alt than previous interval w
30-Sep-15	232.25	234.1	2Bi	dkgy	v-fg					v minor fragments

Hole ID:W1531Project Code:WOC_PitMining Land Number:Lesse Claim 274Planned by:bleducLogged By: alanglaisCollar Depth:1.79mHole Depth:234.1mCollar Coordinates:578233mE 5394710mN (UTM NAD83)Azimuth:180 degreesDip:-48 degreesCore Size:NQDrilling Start Date:11-Sep-2015Drilling End Date:13-Sep-2015Drilled by:Drilled by:Boreal DrillingLogged Drilling

	Inter	val (m)								
			Minor Rock	Rock	Grain					Major Surrounding
	From	То	Name	Colour	Size	Texture 1	Intensity	Texture 2	Intensity	Rock Type
I	196.05	196.1	14	blk	fg					4kt

Hole ID: W1531Project Code: WOC_PitMining Land Number: Lesse Claim 274Planned by: bleducLogged By: alanglaisCollar Depth: 1.79mHole Depth: 234.1mCollar Coordinates: 57823mE 5394710mN (UTM NAD83)Azimuth: 180 degreesDip: -48 degreesCore Size: NQDip: -48 degreesDrilling Start Date: 11-Sep-2015Drilling End Date: 13-Sep-2015Drilled by: Boreal Drilling

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Inter	val (m)									
From	То	Major Rock Name	Alteration 1	Intensity	Alteration 2	Intensity	Mode	Alteration 3	Intensity	Mode
2.15	10.46	2kt	Bx	SI	Cz	М	g			
10.46	25.75	2Bi	Bx	SI	Cz	W	g			
27.4	34.31	2c	Bx	SI	Cz	MS	g			
34.31	38.53	2Bi	Bx	SI	Ex	WM	v			

Hole ID: W1531Project Code: WOC_PitMining Land Number:Lease Claim 274Planned by: bleducLogged By: alanglaisCollar Depth: 1.79mHole Depth: 234.1mCollar Coordinates: 578233mE 5394710mN (UTM NAD83)Azimuth: 180 degreesDip: -48 degreesCore Size: NQDrilling Start Date: 11-Sep-2015Drilling End Date: 13-Sep-2015Drilled by: Boreal Drilling

Interval	(m)							C	Discontir	nuity Set	1			Dis	contin	uity Set 2		l	Discontir	uity Set 3	3	
	•	Total Recovery	RQD Measurement	Rock		Number of	Alpha						Alpha				Alph	а				
From	То	(m)	(m)	Strength	Weathering	Discontinuity Sets	Angle	Frequency	Infill	Length	Roughness	Туре	Angle	Frequency	Infill	Length Roughness	Type Ang	e Frequency	Infill	Length	Roughness	Туре
0	6	4.21	2.93	R4	W1	13	57	20	Ν	3	S_rough	FO	45	1	Ν	3 S_rough	J	L4	1 H3	3	S_rough	J
6	9	2.94	2.39	R4	W1	J1.5	63	14	Ν	3	S_rough	FO	45	2	Ν	3 S_rough	J					
9	12	2.93	2.58	R4	W1	J2.5	57	15	N	3	Smooth	FO	40	1	N	3 V_rough	J 4	10	1 H3	3	S_rough	J
12	15	3.02	2.81	R4	W1	J3	62	6	Ν	3	Smooth	FO	60	1	Ν	3 V_rough	J	35	3 N	3	Rough	J
15	18	2.93	2.93	R4	W1	J1	57	2	N	3	Rough	FO										
18	21	3.07	3.07			J1.5	60	4	N	3	S_rough	FO	8	2	H3	3 Rough	J	13	1 H3	3	Rough	J
21	24	3.39	2.97			J2.5	58	15	H3	3	S_rough	FO	25		H3	3 Rough	J	19	1 N		V_rough	J
24	27	3.01	2.49			J3.5	61		N	3	Rough	FO	15	3		3 Rough	J	22	1 N	3	Rough	J
27	30	2.8	2.43			J1.5	48		N		Rough	J	13	1		3 V_rough	J					
30	33	3.05				J2	59		N	3	Smooth	FO	46	3		3 S_rough	J					
33	36	2.95	2.76	-		J2	60		N		S_rough	FO	18	1		3 Rough	J					
36	39	3.02				J2.5	50		Ν		S_rough	FO	45	1		3 Rough	-		2 H3		V_rough	J
39	42	2.89	2.31			J2.5	64		Ν		Rough	FO	45	1		3 S_rough			3 H3		Rough	J
42	45	2.97	2.91	-		J3.5	60		N		S_rough	FO	57	1	H3	3 Rough	J	35	1 N	3	S_rough	J
45	48	3.03	2.97			J1	40		N		V_rough	J										
48	51	3	2.72			J2	60		N		Rough	FO	60	3		3 Rough	J		-			<u> </u>
51	54	2.85	2.59			J2	64		N		Rough	FO	5		H3	3 Rough	J					
54	57	2.98	2.98			J2	52		S3		Slicken	FO	35	2		3 Rough	J	_				
57	60	2.87	1.96			J1.5	61	20			Smooth	FO	10		H3	3 V_rough	J	-				<u> </u>
60	63	3.22	2.96		W1	J2	59				Smooth	FO	30	2	N	3 V_rough	J	-				<u> </u>
63	66	2.99				J1	35		N		Rough	J		-				_				<u> </u>
66	69	2.97				J2	65	2	N	3	Smooth	FO	22	2	H3	3 Rough	J	-				<u> </u>
69	72	2.98	2.98	1	W1	10 10	64	-		2	C I	50	47	2	N .					2		<u> </u>
72	75	2.96				J2.5	61		N		S_rough	FO	47	2		3 Rough	J	32	3 N	3	Rough	J
75	78	2.94	2.53			J2	55		N		S_rough	FO	45	2		3 Rough	J		-			<u> </u>
78	81	3.05				J1.5	66		N		Rough	FO	19	1		3 S_rough	J		-			<u> </u>
81 84	84	2.96 3.07	2.96			J1.5	64 58		N H3		S_rough	FO	19 40	1		3 Rough	l ,	36	1 112	2	C rough	
84	87	2.96	2:50		VV T	J2.5 J1.5	58	5	113		S_rough	FO FO	40	1	H3	3 Rough	J .		1 H3 1 H3		S_rough Rough	J
90	90 93	2.98			1	J1.5 J1	40		N		Smooth V_rough	FU I	40	T	IN	3 S_rough	J			5	KOUgh	J
90	95	3.03				J1	57		N		S_rough	J										<u> </u>
96	99	2.92				J2	60		N			FO	38	1	N	3 Rough	1					<u> </u>
99	102	3.01				J1	65				Smooth	FO	58	Ŧ	IN	J Nough	J					<u> </u>
102	102	3.01				J2.5	59		N		Rough	FO	44	2	N	3 Rough	1	LO	3 N	3	V_rough	h
102	103	2.92				J2.5 J2	60		N		_	FO	29			3 Rough				J		Ĺ
103	100	3.09				J1.5	66		H3		Rough	FO	30			3 V_rough	- J					
100	111	3.02				J2	68		N		Smooth	FO	20			3 Rough	J					
111	117	2.95				J1	62		N		Smooth	FO	20		-		·					
117	120	3.1				J2.5	63		N			FO	39	1	N	3 Rough	J	50	1 S2	3	Smooth	J
120	123	2.92				J2	57				Smooth	FO	21	2		3 V_rough	J					
123	126	3.05				J2	60		N		Smooth	FO	35	2		3 V_rough	J					
126	129	2.98				J2.5	62		N		Smooth	FO	23		H3	3 Rough	J	32	1 N	3	V_rough	J
129	132	2.96				J1	67		N		Smooth	FO								_		
132	135	2.82				J1	64		N		S_rough	FO										
135	138	3.07				J2	52		N		Smooth	FO	25	3	H3	3 S_rough	J					
138	141	2.9				J2	62		N		Smooth	FO	32			3 V_rough	J					
141	144	3.03				J1	60		N		Smooth	FO	47		S3	3 Slicken	J					
144	147	2.92				J2	55		N		S_rough	FO	50			3 S_rough	J					
147	150	3.09				J2	55		N		Rough	FO	33			3 Rough	J					
150	153	3.02		-		J2.5	50		N	1		FO	30		H3	3 S_rough	J	1	1 H3	3	S_rough	J

153	156	2.92	2.42	R4	W1	13	62	15 N	3 Smooth	FO	32	2 N	3 V_rough	J	19	2 H3	3	Rough	J
156	159	3.06	3.06	R4	W1	J1.5	53	5 S3	3 S_rough	FO	25	1 H3	3 V_rough	J					
159	162	3.03	3		W1	J1	64	2 N	3 Smooth	FO									
162	165	3.04	2.99	R4	W1	13	60	4 N	3 Smooth	FO	45	2 N	3 Rough	J	38	1 N	3 :	S_rough	J
165	168	3.04	2.99	R4	W1	J2.5	61	3 N	3 S_rough	FO	42	2 N	3 V_rough	J	40	4 N	3 :	S_rough	J
168	171	2.88	2.88	R4	W1	J1	65	2 N	3 Rough	FO									

Appendix D

DDH W1533 Drill Logs

Hole ID: W1533Project Code: WOC_PitMining Land Number:Lase Claim 274Planned by: bleducLogged By: alanglaisCollar Depth: 1.9mHole Depth: 300mCollar Coordinates:578260mE 5394698mN (UTM NAD83)Azimuth: 180 degreesDip: -59 degreesCore Size: NQDrilling Start Date: 21-Sep-2015Drilling End Date: 23-Sep-2015Drilling End Date: 23-Sep-2015Drilled by: Boreal DrillingLase Alage Ala

	Interva	al (m)								
LoggedDate		То	Major Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Comments
2-Oct-15	0	1.9	0							
2-Oct-15	1.9	15.9	2Bi	blk	vfg					weakly foliated; mostly massive; very bi rich and cx rich interval; minor rd alteration in carbonate vns and along fractures; last 1/2 metre rd banded w minor ep alt
2-0ct-15 2-0ct-15	1.9	21.13	261 2C	blk	víg vfg	с	М			true 2c; vfg bi rich matrix w porphyritic light grey stretched fragments (cm scale)
2-Oct-15	21.13	25.51	28i	dkgy	v-fg	c c	W			v weak fragments; mostly bi rich 2 w overprinting green alt originating from healed fractures; mod banding
2-Oct-15	25.51	27.28	2c	dkgy	vfg	С	М			like previous 2c
										weak to mod kt banding; some intervals appear more like 2bi; but sig less cx alt; could be classified as 4kt; appears
2-Oct-15	27.28	48.8	2kt	dkgy	v-fg	t	WM			slightly more volcaniclastic than metased
5-Oct-15	48.8	49.15	16	wht	vfg					almost opaque strongly banded metaseds/banded volcaniclastics; appears more metasedimentary but likely a mix of 2 and 4; slightly
5-Oct-15	49.15	55.13	4kt	medgy-dkgy	v-fg					green-grey alteration w v light bands and kt bands
5-Oct-15	55.13	55.74	12	dkgy	f-mg					massive 12 (relatively intermediate)
5-Oct-15	55.74	59.32	4kt	medgy-dkgy	v-fg					strongly banded metaseds; possibly still transitioning from 2 to 4; mostly light banding w some kt banding
										relatively massive interval; possibly large bed within metaseds w bi qz fsp; fine grained bi w coarse fsp and variable qz;
5-Oct-15	59.32	63.2	4k	dkgy	m-cg					distinct bedding contacts at either end; very few bands; minor v narrow alteration bands (light grey-green); appears darker w depth but likely result of polished core as opposed to mineral content
5-Oct-15	63.2	65.27	4kt	grngry	v-fg					more fine grained than previous interval w more abundant banding; more coarse than previous 4k intervals
5-Oct-15	65.27	70.96	4kt	dkgy	m-cg					identical to previous 4k interval
										strongly banded w sig pink alteration and minor ep bands in first half of interval; overprinting grey-green alt throughout
5-Oct-15	70.96	82.38	4kt	medgy-dkgy	v-fg					appears to originate from healed fractures
5-Oct-15	82.38	91.81	4kt	dkgy	v fa					bi rich banded metaseds/volcaniclastics - possibly still intermixing 2 and 4; carbonate present in narrow bands; overprinting grey-green alt but much less than previous interval
5-Oct-15	91.81	91.81	4Kt 4FT	икду	v-fg					moderately healed fault zone w soft white infilling (2cm)
	0	01.00								
5-Oct-15	92.03	95.6	4kt	dkgy	v-fg					bi rich w mostly light banding vs kt banding; volcaniclastic texture picks up towards lower contact (gradational contact)
										4c mostly mm scale fragments; volcaniclastic texture or pseudofragments?; minor overprinting grey-green alt; kt
5 Oct 15		105.25	2-	all and a						banding present; several ~1/2m intervals lack fragments and have strong kt banding w slightly stronger fx alt than
5-Oct-15 5-Oct-15	95.6 105.25	105.25 107.53	2c 4kt	dkgy dkgy	v-mg v-fg	С	MS	t	M	surrounding rock; occasional true fragments towards lower contact (cm scale very few) very weakly fragmental (more volcaniclastic appearance than true fragmental)
5-0ct-15	105.23	107.53	4Kt 4FT	икду	v-ig					narrow gouged fault plane w foliation
										some intervals appear more like 2c but overall should probably be considred 4c; some intervals w true fragments
										predominantly pseudoclasts w mm scale volcaniclastic fragmental texture; true fragments are stretched; appear
5-Oct-15		126.1	2c	medgy-dkgy		С	MS			subrounded; occasionally porphyritic
5-Oct-15	126.1	126.81	9f	dkgy	v-fg					v small and widespread phenos *4c* mostly pseudoclasts w occasional true clasts; cm scale and mm scale volcaniclastic clasts; mod overprinting grey-
5-Oct-15	126.81	132.26	2c	dkgy	v-mg	с	MS			green alteration
				~	8					mod banded w strong overprinting washed out grey-green alt; some more massive beds appear almost like masdive
5-Oct-15	132.26	138.33	4kt	dkgy	v-fg					dykes but contain slight banding and lack sharp contacts; visible healed fractures cause of green alt
5-Oct-15	138.33	155.68	2c	dkgy	v-mg	с	м	+	м	*4c* pseudofragmental; mm to cm scale w very few fragments that appear "true"; majority appears to have v small "fragmental" volcaniclastic texture; lower contact less fragmental; alternating 4kt and 4c into following 4kt interval
5-001-15	130.33	133.08	20	икду	v-iiig	L L		L	101	strongly kt banded metaseds w mod fx alt and overprinting "washed out" alteration throughout most of interval; some
6-Oct-15	155.68	162.31	4kt	medgy	v-fg					light banding as well as kt;
6-Oct-15	162.31	162.63	4FT							highly fractured along foliation plane w minor gouge
6-Oct-15	162.63	169.88	4kt	medgy	v-fg					continuation of previous 4kt
6-Oct-15	169.88	177.37	4kt	dkgy	m-cg	С	W			weakly kt banded metaseds; med to coarse grained; v weakly fragmental (1/2-2cm subrounded) grain size decrease from prev interval and increase in kt bands; increase in fractures along foliation plane; overprinting
6-Oct-15	177.37	183.92	4kt	dkgy	v-fg					green-grey alt; light banding increases to strong at lower contact
6-Oct-15	183.92	184.49	4FT	- 01	0					
6-Oct-15	184.49	188.35	4kt	medgy-dkgy	v-fg					continuation of 4kt from before fault
6-Oct-15	188.35	191.84	12							large massive mafic dyke
6-Oct-15	191.84	200.49	4q	dkgy	f-mg					relatively massive (strong foliation but no banding etc); abundant retro gt; mod cx content esp in retrograde gt
6-Oct-15	200.49	200.49	4q 4kt	акду medgy-dkgy	v-fg					strongly banded w both act. kt bands and light banding;
6-Oct-15	207.05	214.91	4q	dkgy	f-mg					identical to prev 4q
										major fluid intrusions throughout interval; predom carbonate and actinolite; strong fx alteration to host rock probably
6-Oct-15			4kt	dkgy	vfg					from proximal 12 dyke and strong bx
7-Oct-15	218.41	219.05	12							massive 12 v strong bx alt w mod to strong overprinting cx alt; well foliated but otherwise relatively massive/uniform; minro
7-Oct-15	219.05	232.44	2Bi	dkgy	fg					intervals of more banded fx altered material and mx alt;
										mod to streong fx alt w sig less bx alt than surrounding intervals; well banded - potentially stretched fragments can't tell
7-Oct-15	232.44	235.8	2kt	brngy	v-fg					for sure; bands slightly buff coloured; some overprinting bx and cx alt
I T	Ī	Ī								
7 0 -+ 15	225.0	255 62	חר:	، بمبالم						very distinct overprinting cx alt and intense bx; possibly fragmental but strong overprinting alteration masks it (has fragmental "feel" but difficult to identify actual clasts); cx decreases slightly at lower contact and chi alt slightly nicks up
7-Oct-15	235.8	255.62	2Bi	dkgy	v-mg					fragmental "feel" but difficult to identify actual clasts); cx decreases slightly at lower contact and chl alt slightly picks up moderately bx altered volcaniclastics w variable mod fx alt; variable mod chl alt and mod cx alt; possibly weakly
7-Oct-15	255.62	266.07	2Bi	medgy-dkgy	v-fg	с	w			fragmental (mm scale); bx cx and chl alt overprinting; minor mo min at lower contact
7-Oct-15	266.07	266.37	12	blk	vfg					strained w abundant carbonate
7-Oct-15	266.37	267.7	2cs	dkgy	v-fg	С	WM			strongly fx altered mo min interval; mod bx and strong cx; possibly fragmental (mm to cm scale)
70145	267 7	274 74)		r .					strongly fx altered mm to cm scale fragments w overprinting and matrix alt of mod to strong chl and mod bx and strong
7-Oct-15	267.7	271.71	2cs	medgy	v-fg					CX
7-Oct-15	271.71	277.84	2cs	medgy-dkgy	v-fg	с	w			possibly fragmental ; alteration masks texture; storng fx alt w mod bx chl cx alt; good mo min throughout w v minor py
										intensely fx altered weak to mod fragmental 2; fragments light grey to buff; some mo min throughout; overprinting chl
7-Oct-15	277.84	285.28	2cs	ltgy-medgy	vfg	с	м			and cx alt;
		204 4	2							strongly fragmental fx altered interval; buff coloured fragments; possibly still 2cs w stronger fx alt; subrounded to
7-Oct-15 7-Oct-15	285.28	291.44 300	3cs 2cs	brn medgy	vfg v-fg	C C	S W			rounded cm scale fragments; some fragments weakly porphyritic strong fx alt w overprinting mod bx chl and cx alt; mm scale fragments
7-001-15	291.44	300	265	medgy	v-fg	C	VV			Strong is all woverprinting mou us the and ts all, innestable nagments

Hole ID:W1533Project Code:WOC_PitMining Land Number:Losged By: alanglaisPlanned by:bleducLogged By: alanglaisCollar Depth:1.9mHole Depth:300mCollar Coordinates:578260mE 5394698mN (UTM NAD83)Azimuth:180 degreesDip:-59 degreesCore Size:NQDrilling Start Date:21-Sep-2015Drilling End Date:23-Sep-2015Drilled by:Boreal Drilling

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17

Inter	val (m)								
From	То	Minor Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Major Surrounding Rock Type
76.26	76.47	16	wht	vfg					4kt
142.99	143.16	12	blk	fg					2c
180.8	180.87	14	blk	vfg					4kt
237.65	237.8	12	blk	fg					2Bi
239.16	239.44	12	blk	fg					2Bi
241.45	241.65	12	blk	fg					2Bi
272	272.7	2s	dkgy	vfg					2cs
283.9	285.28	2s	dkgy	vfg					2cs

Hole ID: W1533Project Code: WOC_PitMining Land Number:Lesse Claim 274Planned by: bleducLogged By: alanglaisCollar Depth: 1.9mHole Depth: 300mCollar Coordinates:578260mE 5394698mN (UTM NAD83)Azimuth:180 degreesDip: -59 degreesCore Size: NQDrilling Start Date:21-Sep-2015Drilling End Date:23-Sep-2015Drilled by:Boreal Drilling

F

Inter	val (m)							
From	То	Major Rock Name	Alteration 1	Intensity	Alteration 2	Intensity	Alteration 3	Intensity
1.9	15.9	2Bi	Bx	I	Cx	М		
15.9	21.3	2c	Bx	SI				
21.3	25.51	2Bi	Bx	S				
25.51	27.28	2c	Bx	S				
27.28	40	2kt	Bx	М	Fx	W	Cz	WM
219.05	232.44	2Bi	Bx	SI	Cx	М	Cz	W
232.44	235.8	2kt	Fx	MS	Bx	WM	Cx	WM
235.8	251	2Bi	Bx	I	Cx	S		
251	255.62	2Bi	Bx	SI	Cx	М	Cz	WM
255.62	266.07	2Bi	Fx	М	Bx	М	Cz	М
266.07	267.7	2cs	Fx	SI	Bx	М	Cx	MS
267.7	271.71	2cs	Fx	MS	Bx	М	Cz	М
271.71	277.84	2cs	Fx	S	Bx	М	Cz	М
277.84	285.28	2cs	Fx	SI	Cz	WM	Cx	WM
285.28	291.44	3cs	Fx	I	Cx	М		
291.44	300	2cs	Fx	S	Bx	М	Cz	WM

Hole ID:W1533Project Code:WOC_PitMining Land Number:Lease Claim 274Planned by:bleducLogged By:alanglaisHole Depth:300mCollar Coordinates:578260mE 5394698mN (UTM NAD83)Azimuth:180 degreesDip:Core Size:NQDrilling Start Date:21-Sep-2015Drilling End Date:23-Sep-2015Drilled by:Boreal Drilling

Interv	al (m)					
		Ore	Mineralization	Ore	Mineralization	Major Surrounding
From	То	Mineral 1	Percentage	Mineral 2	Percentage	Rock Type
266.37	267.7	Мо	0.25			2cs
271.71	277.84	Мо	0.2	Ру	0.05	2cs
277.84	285.28	Мо	0.05			2cs

Hole ID: W1533Project Code: WOC_PitMining Land Number:Lease Claim 274Planned by: bleducLogged By: alanglaisCollar Depth: 1.9mHole Depth: 300mCollar Coordinates: 578260mE 5394698mN (UTM NAD83)Azimuth: 180 degreesDip: -59 degreesCore Size: NQDrilling Start Date: 21-Sep-2015Drilling End Date: 23-Sep-2015Drilling End Date: 23-Sep-2015Drilled by: Boreal DrillingLogged Drilling

Interva	l (m)		atal Pacovary POD Massurament Pack Number of					C	iscontir	nuity Set	1			Disc	ontin	uity Set 2			Discontir	uity Set 3	3	1
		Total Recovery	RQD Measurement	Rock		Number of	Alpha						Alpha				Alpl	na				Τ
From	То	(m)	(m)	Strength	Weathering	Discontinuity Sets	Angle	Frequency	Infill	Length	Roughness	Туре	Angle	Frequency I	Infill	Length Roughness	Type Ang	le Frequenc	/ Infill	Length	Roughness	Туре
0	6	4.21	3.01	R4	W1	J2	58	15	N	3	Smooth	FO	32	5 H	12	3 V_rough	J					
6	9	2.93	2.26	R4	W1	J2	60	16	N	3	Rough	FO	21	1 H	ł3	3 Rough	J					
9	12	3.02	2.88	R4	W1	J3	60	5	N	3	S_rough	FO	39	1 N	1	3 V_rough	l	24	1 H3	3	Rough	J
12	15	3		R4	W1	J3	55	4	N		Smooth	FO	35	1 H		3 Smooth	J	25	1 H3		Rough	J
15	18	3.06	2.87	R4	W1	J2	55	10	N	3	Rough	FO	30			3 S_rough	l					
18	21	2.96	2.56			J3	45	6	S3		S_rough	FO	25	1 S		3 S_rough	l	10	1 H3	3	S_rough	J
21	24	2.98	2.96		W1	J2	61		N		Rough	FO	37	1 N		3 Rough	l					
24	27	3.34	3.28		W1	J1	45		H3		V_rough	FO										
27	30	3.01	2.62		W1	J2	55	13			Rough	FO	45	1 N	J	3 S_rough	J					
30	33	2.85			W1	J2	50		H3		Smooth	FO	40	2 N		3 S_rough	J					
33	36	2.89	2.68			J2.5	49		H3		Rough	FO	55	1 N		3 V_rough	-	24	1 H3	3	Rough	l.
36	39	2.98	2.57		W1	J3	48		N		S_rough	FO	48	2 N		3 V_rough	-	33	1 N		S_rough	<u>l</u>
39	42	2.97			W1	J1	59		H3		Rough	FO			•		•				<u></u>	Ė
42	45	2.99	2.99		W1	J2	51		N		S_rough	FO	42	5 N	J	3 Rough	1					
45	48	3.07	3.07		W1	J1	55		N		Rough	FO	12	5 1	•	5 Nough	J					
48	51	2.93	2.72		W1	J2	55		N		Rough	FO	47	6 N	J	3 Rough	1					
51	54	3.04	2.38			J2.5	50		H3		Rough	FO	45	6 H		3 Rough	J	29	1 N	3	V_rough	1.
54	57	2.93	2.50		W1	J2.5	56	15			S_rough	FO	41	2 H		3 S_rough	J	25		5	v_lough	1
57	60	3	2.88		W1	J2 J2	50		<u>N</u>		S_rough	FO	54	3 N		3 S_rough	J					1
60	63	3.05			W1	J2 J1	31		H3		S_rough	10	54	5 1	v	5 5_10ugii	J					-
63	66	3.02				J3	60		N		S_rough	FO	52	3 N	1	3 V_rough	1	23	2 H3	2	S_rough	+
66	69	3.02			W1 W1	J1	20		N				52	5 1	1		J	23	2 115	3	3_IOUgII	J
69	72	3.05			W1	J2	20 54	15			Rough Smooth	FO	56	1 N	1	2 Dough		_				—
72	72	2.96	2.43		W1 W1	J3			N			FO	34			3 Rough 3 Rough	J	32	1 H3	2	Rough	+
72	73	2.90			W1 W1	13			N		Rough	FO	54 60	1 S				23	2 N		-	<u> </u>
73	78 81	3.27	2.03			J3.5	61 52				Rough Smooth	FO	57	3 N		3 S_rough		23	1 N		Rough	- <u> </u>
81		2.81	2.73		W1 W1	J3	52					FO	45	2 N		3 S_rough	J	24 1 F	2 H3		Rough	<u> </u>
81	84					J3 12	52		N N		Rough	FO	45			3 Rough	J	15	2 113	5	Rough	J
0.	87	2.99			***	J3	52	т			Rough	10	1,7	2 N	•	3 V_rough	J	20	2112	2	C rough	
87	90	3.03 3.03			W1 W1	J2.5	55		N S3		Smooth Smooth	FO	49			3 Rough		38	2 H3 1 S1		S_rough	J
90	93				W1		55					FO FO	39 40			3 V_rough	J	50	1 51	3	Smooth	V
93	96	2.95				J2	60		S3							3 Rough	J		_			4
96	99	3.02				J2	55		N		S_rough	FO	23			3 V_rough	J	20	4 N	2	C. new sh	4
99	102	3.03				J3	46		S3		Rough	FO	50	2 N	J	3 Rough	J	30	1 N	3	S_rough	J
102	105	2.89			W1	J1	57		S3		Smooth	FO	45	1.0	4	2 Cruce at h	-					4
105	108	3				J1.5	52		S3		Smooth	FO	45			3 Smooth						4
108	111	3.01			W1	J2	60		N		Rough	FO	50	2 N	4	3 Rough	J					4
111	114	2.99			W1	J1	17		H3		Rough	J	22									4
114	117	3.06			W1	J2	32		N		Rough	1 1	33			3 V_rough	1 I	2.4			\/	4.
117	120	3				J3	57	3	N	3	Rough	FO	41	1 N	J	3 Rough	J	34	1 N	3	V_rough	IJ
120	123	2.96			W1	10		-	N	2	C. maximi	50	40									4
123	126	3.02			W1	J2	58		N		S_rough	FO	40			3 V_rough	J					4
126	129	3	2.97		W1	J2	56		N		Rough	FO	37			3 V_rough	J					4
129	132	2.95				J2	50		N		S_rough	FO	29			3 V_rough	1	26	4		a	4.
132	135	3.03				J2.5	50		N		Smooth	FO	41	2 H		3 Rough	1	36	1 N	3	Smooth	1
135	138	3.04			W1	J2	40		S3		Smooth	FO	40			3 V_rough	1					4
138	141	2.88				J2	54		N		Rough	FO	21			3 Rough	J					4
141	144	3.02				J1.5	58		N		Smooth	FO	20			3 V_rough	1					4
144	147	3.05			W1	J2	64		N		Rough	FO	41	1 N	J	3 Rough	J					4
147	150	3.03				J1	66		Ν		S_rough	FO										4
150	153	2.9	2.9	R4	W1	J2	50	4	H3	3	Smooth	FO	52	1 N	1	3 Rough	J					

153	156	2.96	2.96	R4 W1	J2	48	3 S3	3 Smooth FO	41	1 N	3 V_rough J			
156	159	3.09	3.09	R4 W1	J2	50	3 N	3 Smooth FO	29	1 N	3 V_rough J			
159	162	3	2.84	R4 W1	J1	55	10 N	3 Rough FO						
162	165	2.95	2.52	R4 W1	J1.5	53	14 S3	3 Smooth FO	53	1 S2	3 Smooth F			
165	168	3.05	3.05	R4 W1	J2	54	3 N	3 S_rough FO	50	1 N	3 S_rough J			
168	171	3.03	3.03	R4 W1	J2	50	2 N	3 S_rough FO	46	1 N	3 Rough J			

Appendix E

DDH W1534 Drill Logs

Project Code: WOC_Pit <u>Hole ID:</u> W1534 Mining Land Number: Lease Claim 274 Planned by: bleducLogged By: alanglaisCollar Depth:1.47 mHole Depth:350.7 m Collar Coordinates: 578261mE 5394698mN (UTM NAD83) Azimuth: 180 degrees Dip: -69 degrees <u>Core Size: NQ</u> Drilling Start Date: 24-Sep-2015 Drilling End Date: 26-Sep-2015 Drilled by: Boreal Drilling

Image 3.0000To Name NoNo <b< th=""><th>]</th><th>Interva</th><th>al (m)</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></b<>]	Interva	al (m)								
100 H 0 Let 0 Description Description <thdescription< th=""> <</thdescription<>				Major Rock		Grain					
No.11 <th< td=""><td></td><td>From</td><td></td><td>Name</td><td>Rock Colour</td><td>Size</td><td>Texture 1</td><td>Intensity</td><td>Texture 2</td><td>Intensity</td><td>Comments</td></th<>		From		Name	Rock Colour	Size	Texture 1	Intensity	Texture 2	Intensity	Comments
Sector j.	8-Oct-15	0	1.47	0							
1000 1000 1000 1000 1000 1000 10000 $1000000000000000000000000000000000000$	8-Oct-15	1 47	17.69	2 D i	blk	vfa					
Bit Sing 2 Disk Sing 2 Disk Sing 2 Disk 2 <thdis< td=""><td>8-001-15</td><td>1.47</td><td>17.00</td><td>201</td><td>UIK</td><td>vig</td><td></td><td></td><td></td><td></td><td></td></thdis<>	8-001-15	1.47	17.00	201	UIK	vig					
And model Table Transmissiphic value at and signity value											
Story 1 31.4 91.9 71.0 <th71.0< th=""> 71.0 71.0 <</th71.0<>	8-Oct-15	17.68	31.65	2c	blk	v-fg	с	М			
8.00:13 90.72 91.74 <											weakly to mod banded 2Bi; predom vfg and bi-rich w dg kt bands; slight pink alt in
North North Acts					dkgy	v-fg	t	WM			
8-04.15 5.2. 2.1. d.w. y.w.	8-Oct-15	50.73	51.9	12							
8-00:53 01.5 0.53 0.52 0.55 <th0.55< th=""> 0.55 0.55 <</th0.55<>	0 Oct 15	51.0	C 4 F 1	21.4	ماليصر						
80145 55.2 645 64.1 medgy right k 5 1 M Mended and firm banded matched metabolin optical process for banding; possibly porp, or volamidst (correspondence) and in the participation of the partin parties of the participation of the participation of the partic					акду	v-tg					
Book Base Base <th< td=""><td></td><td></td><td></td><td></td><td>medgy</td><td>v-fø</td><td>k</td><td>S</td><td>t</td><td></td><td></td></th<>					medgy	v-fø	k	S	t		
8-001.5 68.5 82.8 0.4 0	0 000 15	05.5	00.55	TRU	meagy	V 18	K	5		1*1	
13-01-1512.891.644 μ_{0} ν_{0} ν_{0} μ_{0}											bi-rich; relatively massive (no banding); possibly porph. or volcaniclastic (coarse
13 Du H 91.0 92 47T Non- Non- Non- Spage failed dx 13 Du H 91 13.4 dkg vig c W Budded metabole. Database for the start index parally intervals have apprivative/or index intervals have apprivative/or index intervals have apprivative/or index intervals. Spage failed dx 13 Du H 200 13.4.5 12.6 11.4. dkg vig c W Decode failed dx Spage failed dx 13 Du H 200 13.4.5 12.6 dkg drg c W Decode failed dx Spage failed dx 13 Du H 22.50 13.4.5 12.6 dkg freg C W Decode failed dx Spage failed dx 13 Du H 22.5.7 2.6 dkgy freg C W Decode failed dx Decode failed dx <td>8-Oct-15</td> <td>68.95</td> <td>82.89</td> <td>4k</td> <td>dkgy</td> <td>v-mg</td> <td></td> <td></td> <td></td> <td></td> <td>grained seds??); overprinting grey-green alt and some pink alt in fractures;</td>	8-Oct-15	68.95	82.89	4k	dkgy	v-mg					grained seds??); overprinting grey-green alt and some pink alt in fractures;
Sunder Transmission	13-Oct-15				pnk	v-fg					
Image: Image:<	13-Oct-15	91.65	92	4FT							
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13 13 12 14<											
13:0.115 121.45 72.48 447 orange of the second seco	12_0+15	0.2	121 /5	۸L+	dkav	v_fα		۱۸/			
13 0.015 121.08 122.47 2.c dbgy r/m					urgy	v-ig	L	vv			
13 Oct 15 127-27 137 obgy Fing massee 13 Oct 15 122.07 132.7 13 obgy Fing massee 13 Oct 15 122.07 132.7 13 obgy Fing massee 13 Oct 15 132.7 138.07 Hall massee massee massee 13 Oct 15 132.7 138.07 Hall 13 obgy Fing massee massee 13 Oct 15 142.06 138.07 Hall 13 obgy Fing massee massee overprinting of the stand					dkgv	vfg	С	M			
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13-Oct-15 132.7 136.07 2c medgy-digy vig. c WM Property fail construction on the indicates to indicate methods or work printing gray-green at in lowed prints and the model gray prints and the gray prins and the gray prints and the gray prints and the gray	13-Oct-15	128.7	129.07	2c							*4c* slightly pink altered pseudofragmental metaseds
Society Tex meggedgey $v_{\rm fg}$ C WM Texpending program is stretched, overprinting groy green alt in lower 21300-15 13:00-15 13:07 14:103 13 dky $f_{\rm rg}$ maskin 13:00-15 13:07 14:03 12:06 2:0 dky $v_{\rm fg}$ maskin 13:00-15 14:35 147.3 2:2 dky $v_{\rm fg}$ c WM 2:4:2 pscular agree phenos 13:00-15 14:35 147.3 2:2 dky $v_{\rm fg}$ c WM 2:4:2 pscular agree phenos 13:00-15 14:35 12:7 dky $v_{\rm fg}$ c W 2:4:2 maskin agree phenos 13:00-15 15:9 12:2 dky $v_{\rm fg}$ c W 2:4:2:3 maskin agree phenos 13:00-15 15:8 7:5:8 4:7 dky $v_{\rm fg}$ c M 2:4:3:3:3:3:3:3:3:3:3:3:3:3:3:3:3:3:3:3:	13-Oct-15	129.07	132.7	13	dkgy	f-mg					massive
13 Oct 15 132,7 138 Oct 7 2 medgy digy r/g C WM Zmmed All right at diabase contacts. 13 Oct 15 130,7 140,80 133 digy fmg V Particle All right at diabase contacts. 13 Oct 15 142,9 143,55 97 digy r/g V Particle All right at diabase contacts. 13 Oct 15 147,3 147,35 147 digy r/g C WM V small right spaced phenos. 13 Oct 15 147,5 147,05 12 digy r/g C W V small right spaced phenos. 13 Oct 15 147,5 147,05 12 digy r/g C W V small right at diabase contacts. 13 Oct 15 143,05 143,05 143,05 144 V small right at diabase contacts. Isseptrotos 12 Isseptrotos 2. 13 Oct 15 158,0 176,8 2c digy v small C W Mode to tact small right at diabase contacts. 13 Oct 15 158,0 176,8 2c digy v right K MS Weather to tat											
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13-Oct-15 158.9 176.8 2.c dkgy v-mg c M 13-Oct-15 176.8 188.77 4kt dkgy v-mg k MS washed out k thanded metaseds 14-Oct-15 188.77 204.03 4kt dkgy v-fg k W weakly banded metaseds 14-Oct-15 204.31 213.41 14 W weakly banded metaseds banding picks up again and fix alteration increases slighty 14-Oct-15 213.41 14 W Weakly banded metaseds, abundant light banding and overprinting alteration increases slighty 14-Oct-15 213.41 19.58 4kt dkgy v-fg K M minor kit banding picks up again and fix alteration increases slighty 14-Oct-15 213.41 219.58 4kt dkgy r/g M fragments (rare) fragments (rare) 14-Oct-15 213.34 241.85 28i dkgy fg M massive 14-Oct-15 251.8 260.0 28i dkgy fg M					dkgy	v-fg	С	W			
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14-Oct-15 283.37 2Bi dkgy v-mg c S fragmental texture weaker at start of unit; but strong throughout majority; fragments mostly cm scale; tightly spaced; slightly elongate; bx rich matrix w overprinting cx alt and minor chl; small intervals have inc fx alt and dec cx alt; fragments mostly med grey; occasionally buff 14-Oct-15 283.37 284.41 12 dkgy vfg weakly foliated; possibly intermediate 14-Oct-15 284.41 298.04 2c dkgy v-mg weakly foliated; porvinus 2c interval; variable fx and cx alt; minor mo min intensifies w depth 14-Oct-15 298.04 303.12 2c dkgy v-mg weakly mo min; increase in cx veins											
14-Oct-15265.25283.372Bidkgyv-mgcSfragments mostly cm scale; tightly spaced; slightly elongate; bx rich matrix w overprinting cx alt and minor chl; small intervals have inc fx alt and dec cx alt; fragments mostly med grey; occasionally buff14-Oct-15283.37284.4112dkgyvfgoweakly foliated; possibly intermediate14-Oct-15284.41298.042cdkgyv-mgcSlike previous 2c interval; variable fx and cx alt; minor mo min intensifies w depth14-Oct-15298.04303.122cdkgyv-mgiiimo min; increase in cx veins	1,00013	204.05	200.20	16							
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14-Oct-15 284.41 298.04 2c dkgy v-mg like previous 2c interval; variable fx and cx alt; minor mo min intensifies w depth 14-Oct-15 298.04 303.12 2c dkgy v-mg offee similar to prev unit; increase in deformation and fluids; increase in fx alt; increase in mo min; increase in cx veins	14-Oct-15	265.25	283.37		dkgy	v-mg	с	S			
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14-Oct-15 298.04 303.12 2c dkgy v-mg l mo min; increase in cx veins	14-Oct-15	284.41	298.04	2c	dkgy	v-mg					
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	14-0ct-15 14-0ct-15	298.04 303.12	303.12	20 2FT	urgy	v-iiig					faulted 2c

								strongly fx altered fragments w bx and cx rich matrix; fragments altered t	o light
14-Oct-15	303.4	309.44	2cs	medgy-dkgy	v-fg	С	S	brown/buff colour	
14-Oct-15	309.44	309.79	2FT					faulted 2cs; abundant gouge and carbonate material	
14-Oct-15	309.79	313.89	2cs	ltgy-medgy	vfg			pervasively fx altered; mod cx alt; minor mo seams	
								pervasive strong fx alt; light brown/grey; minor mo seams throughout; po	ssibly 2cs w
14-Oct-15	313.89	316.28	3cs	ltgy	vfg			strong alt; abundant buff coloured fragments	
16-Oct-15	316.28	316.49	2FT					gouge w minor breccia	
16-Oct-15	316.49	319.95	3cs	ltgy	vfg			like previous 3cs interval; v strong fx altered fragments; very little matrix;	but bx rich
16-Oct-15	319.95	320.2	3FT					minor gouge	
								strongly fx altered fagments w bi rich matrix; minor mo min; minor overpr	inting chl
16-Oct-15	320.2	329	2cs	medgy	vfg	с	MS	alt; cx alt throughout	
								bi and cx rich; mod to weak fx alt; weakly fragmental throughout; some i	ntervals
								seem to have faint larger (cm scale) fragments; some smaller intervals ha	ve much
16-Oct-15	329	350.7	2c	medgy-dkgy	v-mg	с	W	clearer smaller (mm to cm) fragments; weak porphyritic texture in places	

Hole ID: W1534Project Code: WOC_PitMining Land Number:Lesse Claim 274Planned by: bleducLogged By: alanglaisCollar Depth: 1.47 mHole Depth: 350.7 mCollar Coordinates:578261mE 5394698mN (UTM NAD83)Azimuth:180 degreesCore Size: NQDip: -69 degreesDrilling Start Date:24-Sep-2015Drilling End Date:26-Sep-2015Drilled by:Boreal Drilling

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Inter	val (m)							
From	То	Major Rock Name	Alteration 1	Intensity	Alteration 2	Intensity	Alteration 3	Intensity
233.34	241.85	2Bi	Bx	SI	Сх	S	Cz	W
252.08	260.2	2Bi	Bx	MS	Fx	М	Cx	MS
265.25	283.37	2Bi	Bx	М	Fx	MS	Cx	MS
284.41	288.48	2c	Bx	М	Fx	S	Cx	М
288.48	298.04	2c	Bx	М	Fx	S	Cx	MS
298.04	303.12	2c	Bx	М	Fx	S	Cx	S
303.4	309.44	2cs	Bx	М	Fx	S	Сх	S
309.79	313.89	2cs	Bx	WM	Fx	SI	Cx	М
313.89	316.28	3cs	Fx	SI	Cx	WM		
316.49	319.95	3cs	Fx	I	Bx	WM		
320.2	332	2cs	Bx	MS	Fx	S	Cx	MS
332	350.7	2c	Bx	MS	Fx	WM	Сх	MS

Hole ID:W1534Project Code:WOC_PitMining Land Number:Lease Claim 274Planned by:bleducLogged By: alanglaisCollar Depth:1.47 mHole Depth:350.7 mCollar Coordinates:578261mE 5394698mN (UTM NAD83)Azimuth:180 degreesDip:-69 degreesCore Size:NQDrilling Start Date:24-Sep-2015Drilling End Date:26-Sep-2015Drilled by:Boreal Drilling

Interv	al (m)			
		Ore	Mineralization	Major Surrounding
From	То	Mineral 1	Percentage	Rock Type
284.41	288.48	Мо	0.025	2c
288.48	298.04	Мо	0.01	2c
298.04	299.37	Мо	0.01	2c
299.37	301	Мо	0.03	2c
301	303.12	Мо	0.015	2c
303.4	309.44	Мо	0.02	2cs
309.44	309.79	Мо	0.05	2FT
309.79	313.89	Мо	0.025	2cs
320.2	329	Мо	0.025	2cs

Hole ID: W1534Project Code: WOC_PitMining Land Number:Lease Claim 274Planned by: bleducLogged By: alanglaisCollar Depth: 1.47 mHole Depth: 350.7 mCollar Coordinates: 578261mE 5394698mN (UTM NAD83)Azimuth: 180 degreesDip: -69 degreesCore Size: NQDrilling Start Date: 24-Sep-2015Drilling End Date: 26-Sep-2015Drilled by: Boreal Drilling

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144 147 3.2 3.2 R4 W1 J1 56 3 N 3 Smooth FO M M M M M M M M M M M M M M M M M M				_	-	со						9	FO	-												
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1 14/1 1201 2,891 2,891K4 1W1 1J1 1 5/1 21N 1 315 rougn 1F0													FO					57	J1			2.89	2.89	150	147	
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153	156	2.93	2.63	R4 W1	1 J2	45	8 N	J	3 S_rough	FO	41	3 N	3 V_rough	J			
156	159	2.99	2.77	R4 W1	1 J2	46	10 N	J	3 S_rough	FO	64	2 N	3 Rough	J			
159	162	2.95	2.83	R4 W1	1 J1.5	50	2 N		3 S_rough	FO	50	1 S1	3 Smooth	F			
162	165	3.01	3.01	R4 W1	1 J2	42	2 N	١	3 V_rough	FO	20	1 S3	3 Smooth	J			
165	168	3	3	R4 W1	1 J1	38	2 N	١	3 Rough	J							
168	171	2.99	2.99	R4 W1	1 J1	46	3 N	١	3 Rough	FO							

Appendix F

Boreal Drilling Invoices



240 rue Gilbert-Bossé. Val-d'Or (Québec) Canada J9P 0H4 Tél.:819-874-4213 - Fax: 819-874-4409 Email : laplantea@borealdrilling.com Web Site : www.borealdrilling.com Invoice date : 2015-09-15 Invoice number 13073120150915

Period : *Du* : 2015-09-01 *Au* : 2015-09-15

Customer information :

William Operating Corporation P.O. Box 500 Marathon, Ontario - Canada POT 2E0 Phone : (807) 238-1100 - Fax : (807) 238-1050 - Email : losiecki@hemlomines.com

PO: 130731

act Number : B04-005 / Contact Linda Osiecki - Barrick 2015 Surf

Drill Surface 5.

M	e	T/	e_i	3	g	e
			-	-	-	

Description	Stabilized	Qty	Price	Total	
Hole #W1535cas : 0 - 9 m (Casing NW)		9,0	63,40	570,60	
Hole #W1535 : 9 - 15 m (NQ)		6,0	55,30	331,80	
Hole #W1535 : 15 - 30 m (NQ)		15,0	55,30	829,50	
Hole #W1535 : 30 - 45 m (NQ)		15,0	55,30	829,50	
Hole #W1535 : 45 - 60 m (NQ)		15,0	55,30	829,50	
Hole #W1535 : 60 - 150 m (NQ)		90,0	55,30	4977,00	
Hole #W1535 : 150 - 183 m (NQ)		33,0	57,00	1881,00	
Hole #W1527cas : 0 - 3 m (Casing NW)		3,0	63,40	190,20	
Hole #W1527 : 3 - 15 m (NQ)		12,0	55,30	663,60	
Hole #W1527 : 15 - 30 m (NQ)		15,0	55,30	829,50	
Hole #W1527 : 30 - 45 m (NQ)		15,0	55,30	829,50	
Hole #W1527 : 45 - 60 m (NQ)		15,0	55,30	829,50	
Hole #W1527 : 60 - 150 m (NQ)		90,0	55,30	4977,00	
Hole #W1527 : 150 - 180 m (NQ)		30,0	57,00	1710,00	
Hole #W1529 : 3 - 15 m (NQ)		12,0	55,30	663,60	
Hole #W1529 : 15 - 30 m (NQ)		15,0	55,30	829,50	
Hole #W1529 : 30 - 45 m (NQ)		15,0	55,30	829,50	
Hole #W1529 : 45 - 60 m (NQ)		15,0	55,30	829,50	
Hole #W1529 : 60 - 150 m (NQ)		90,0	55,30	4977,00	-
Hole #W1529 : 150 - 203 m (NQ)		53,0	57,00	3021,00	
Hole #W1528cas : 0 - 3 m (Casing NW)		3,0	63,40	190,20	
Hole #W1528 : 3 - 15 m (NQ)		12,0	55,30	663,60	
Hole #W1528 : 15 - 30 m (NQ)		15,0	55,30	829,50	
Hole #W1528 : 30 - 45 m (NQ)		15,0	55,30	829,50	
Hole #W1528 : 45 - 60 m (NQ)		15,0	55,30	829,50	
Hole #W1528 : 60 - 150 m (NQ)		90,0	55,30	4977,00	
Hole #W1528 : 150 - 171 m (NQ)		21,0	57,00	1197,00	
Hole #W1530cas : 0 - 3 m (Casing NW)		3,0	63,40	190,20	
Hole #W1530 : 3 - 15 m (NQ)		12,0	55,30	663,60	
Hole #W1530 : 15 - 30 m (NQ)		15,0	55,30	829,50	
Hole #W1530 : 30 - 45 m (NQ)		15,0	55,30	829,50	
Hole #W1530 : 45 - 60 m (NQ)		15,0	55,30	829,50	
Hole #W1530 : 60 - 150 m (NQ)		90,0	55,30	4977,00	
Hole #W1530 : 150 - 276 m (NQ)		126,0	57,00	7182,00	
Hole #W1531cas : 0 - 3 m (Casing NW)		3,0	63,40	190,20	28608.60
Hole #W1531 : 3 - 15 m (NQ)		12,0	55,30	663,60	
Hole #W1531 : 15 - 30 m (NQ)		15,0	55,30	829,50	
Hole #W1531 : 30 - 45 m (NQ)		15,0	55,30	829,50	
Hole #W1531 : 45 - 60 m (NQ)		15,0	55,30	829,50	
Hole #W1531 : 60 - 150 m (NQ)		90,0	55,30	4977,00	
Hole #W/1531 : 150 - 234 m (NQ)		84,0	57,00	4788,00	
Hole #W1529cas : 0 - 3 m (Casing NW)		3.0	63,40	190,20	



Customer information :

240 rue Gilbert-Bossé, Val-d'Or (Québec) Canada J9P 0H4 Tél.:819-874-4213 - Fax: 819-874-4409 Email : laplantea@borealdrilling.com Web Site : www.borealdrilling.com Invoice date : 2015-09-15 Invoice number 13073120150915

Period : *Du* : 2015-09-01 *Au* : 2015-09-15

William Operating Corporation P.O. Box 500 Marathon, Ontario - Canada POT 2E0 Phone : (807) 238-1100 - Fax : (807) 238-1050 - Email : losiecki@hemlomines.com

PO: 130731

act Number : B04-005 / Contact Linda Osiecki - Barrick 2015 Surf

Total metreage	1247,0	69743,40
	A SAVE REAL PROPERTY AND	TO THE REAL PROPERTY AND A DRIVEN AND A DRIVENA AND A

Stabilized

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Description		Qty	Price	Total	
2015-09-01	Moving	4,0	55,00	220,00	
2015-09-01	Test	4,0	55,00	220,00	
2015-09-01	Stand by	2,0	55,00	110,00	
2015-09-02	Moving	4,0	55,00	220,00	
2015-09-02	Test	3,0	55,00	165,00	
2015-09-02	Grouting/Cimentation	7,0	55,00	385,00	
2015-09-03	Test	5,0	55,00	275,00	
2015-09-04	Moving	12,0	55,00	660,00	
2015-09-04	Test	3,0	55,00	165,00	
2015-09-04	Grouting/Cimentation	8,0	55,00	440,00	
2015-09-05	Test	2,0	55,00	110,00	
2015-09-05	Bad weather/Mauvaise te	3,0	55,00	165,00	
2015-09-06	Test	1,0	55,00	55,00	
2015-09-06	Other/Autre	10,0	55,00	550,00	
2015-09-06	Grouting/Cimentation	8,0	55,00	440,00	
2015-09-07	Test	6,0	55,00	330,00	
2015-09-08	Moving	6,0	55,00	330,00	
2015-09-08	Test	2,0	55,00	110,00	
2015-09-08	Grouting/Cimentation	13,0	55,00	715,00	
2015-09-08	Stand by	3,0	55,00	165,00	
2015-09-09	Test	4,0	55,00	220,00	
2015-09-10	Test	3,0	55,00	165,00	3190.00
2015-09-10	Grouting/Cimentation	12,0	55,00	660,00	
2015-09-11	Moving	8,0	55,00	440,00	
2015-09-11	Test	3,0	55,00	165,00	
2015-09-12	Test	4,0	55,00	220,00	
2015-09-13	Moving	4,0	55,00	220,00	
2015-09-13	Test	1,0	55,00	55,00	
2015-09-13	Other/Autre	6,0	55,00	330,00	
2015-09-13	Water	2,0	55,00	110,00	
Total Hours		153,0		8415,00	
Others					
www.www.ww					

Unit items Description Qty Price Total 2015-09-11 (BARR) Shoe bit NWL 1 139,02 139,02 369.78 2015-09-11 (BARR) Casing 0.6 metre NWL 6 38,46 230,76 Total Unit items 369,78 Total Others 369,78



Customer information :

240 rue Gilbert-Bossé, Val-d'Or (Québec) Canada J9P 0H4 Tél.:819-874-4213 - Fax: 819-874-4409 Email : laplantea@borealdrilling.com Web Site : www.borealdrilling.com Invoice date : 2015-09-15 Invoice number 13073120150915

Period : *Du* : 2015-09-01 *Au* : 2015-09-15

William Operating Corporation P.O. Box 500 Marathon, Ontario - Canada POT 2E0 Phone : (807) 238-1100 - Fax : (807) 238-1050 - Email : losiecki@hemlomines.com

PO: 130731

act Number : B04-005 / Contact Linda Osiecki - Barrick 2015 Surf

Diamond Products

Drill Surface 5 sn: Surface 5.	Sub Total : 78 528,18
PO: 130731	Sub Total : 78 528,18
GST number : 821200557 RT0001	H-GST 13% : 10 208,66
	QST 0% : 0,00
QST number : 1213558508 TQ0001	Total : 88 736,84

Total = 32168.38



240 rue Gilbert-Bossé, Val-d'Or (Québec) Canada J9P 0H4 Tél.:819-874-4213 - Fax: 819-874-4409 Email : laplantea@borealdrilling.com Web Site : www.borealdrilling.com

Customer information :

William Operating Corporation P.O. Box 500 Marathon, Ontario - Canada POT 2E0 Phone : (807) 238-1100 - Fax : (807) 238-1050 - Email : losiecki@hemlomines.com

PO: 130731

act Number : B04-005 / Contact Linda Osiecki - Barrick 2015 Surf

Drill Surface 5.

Metreage

Description	Stabilized	Qty	Price	Total	
Hole #W1533cas : 0 - 3 m (Casing NW)		3,0	63,40	190,20	
Hole #W1533 : 3 - 15 m (NQ)		12,0	55,30	663,60	
Hole #W1533 : 15 - 30 m (NQ)		15,0	55,30	829,50	
Hole #W1533 : 30 - 45 m (NQ)		15,0	55,30	829,50	
Hole #W1533 : 45 - 60 m (NQ)		15,0	55,30	829,50	
Hole #W1533 : 60 - 150 m (NQ)		90,0	55,30	4977,00	
Hole #W1533 : 150 - 300 m (NQ)		150,0	57,00	8550,00	
Hole #W1534cas : 0 - 3 m (Casing NW)		3,0	63,40	190,20	36778.20
Hole #W1534 : 3 - 15 m (NQ)		12,0	55,30	663,60	
Hole #W1534 : 15 - 30 m (NQ)		15,0	55,30	829,50	
Hole #W1534 : 30 - 45 m (NQ)		15,0	55,30	829,50	
Hole #W1534 : 45 - 60 m (NQ)		15,0	55,30	829,50	
Hole #W1534 : 60 - 150 m (NQ)		90,0	55,30	4977,00	
Hole #W1534 : 150 - 300 m (NQ)		150,0	57,00	8550,00	
Hole #W1534 : 300 - 351 m (NQ)		51,0	59,60	3039,60	
Total metreage		651,0		36778,20	

Stabilized

Hours

Description		01	Dulas	Tatal	
Description		Qty	Price	Total	_
2015-09-20	Moving	4,0	55,00	220,00	
2015-09-20	Test	1,0	55,00	55,00	
2015-09-20	Stand by	5,0	55,00	275,00	
2015-09-21	Test	5,0	55,00	275,00	
2015-09-21	Bad weather/Mauvaise te	2,0	55,00	110,00	
2015-09-22	Test	3,0	55,00	165,00	
2015-09-22	Bad weather/Mauvaise te	5,0	55,00	275,00	
2015-09-22	Clean-Hole	1,0	55,00	55,00	
2015-09-23	Test	1,0	55,00	55,00	3520.00
2015-09-23	Grouting/Cimentation	8,0	55,00	440,00	
2015-09-24	Test	3,0	55,00	165,00	
2015-09-25	Test	5,0	55,00	275,00	
2015-09-26	Test	4,0	55,00	220,00	
2015-09-26	Grouting/Cimentation	3,0	55,00	165,00	
2015-09-27	Moving	6,0	55,00	330,00	
2015-09-27	Grouting/Cimentation	12,0	55,00	660,00	
2015-09-27	Water	2,0	55,00	110,00	
2015-09-28	Moving	12,0	55,00	660,00	
Total Hours		82,0		4510,00	

Invoice date : 2015-09-30 Invoice number 13073120150930

Period : *Du* : 2015-09-16 *Au* : 2015-09-30



240 rue Gilbert-Bossé, Val-d'Or (Québec) Canada J9P 0H4 Tél.:819-874-4213 - Fax: 819-874-4409 Ernail : laplantea@borealdrilling.com Web Site : www.borealdrilling.com

Invoice date : 2015-09-30 Invoice number 13073120150930

Period : *Du* : 2015-09-16 *Au* : 2015-09-30

Customer information :

William Operating Corporation P.O. Box 500 Marathon, Ontario - Canada POT 2E0 Phone : (807) 238-1100 - Fax : (807) 238-1050 - Email : losiecki@hemlomines.com

PO: 130731

act Number : B04-005 / Contact Linda Osiecki - Barrick 2015 Surf

Others

Unit items					
Description		Qty	Price	Total	
2015-09-21	(BARR) Shoe bit NWL	1	139,02	139,02	
2015-09-21	(BARR) Casing 0.6 metre NWL	6	38,46	230,76	
2015-09-27	(BARR) Shoe bit NWL	1	139,02	139,02	
2015-09-28	(Barr) Casing Cap NW	1	68,25	68,25	
2015-09-28	(BARR) Crew transportation Vehicule / month	1	1225,00	1225,00	612.50
2015-09-28	(BARR) Survey inst rental / month	1	2900,00	2900,00	1450.00
Total Unit ite	ns			4702,05	
Total Others	5			4702,05	2432.28

Diamond Products

Drill Surface 5 sn: Surface 5.	Sub Total :	45 990,25 \$
PO: 130731	Sub Total :	45 990,25 \$
GST number : 821200557 RT0001	H-GST 13% :	5 978,73 \$
	QST 0% :	0,00 \$
QST number : 1213558508 TQ0001	Total :	51 968,98 \$

Total = 42730.48

Grand Total = 42730.48+32168.38 = 74898.86

Appendix G

Contact Information

Appendix H

Certificate of Qualifications

Report Author:	Aimee Langlais (Project Coordinator) Williams Operating Corp. PO Bag 500 Marathon, ON POT 2E0 (807)238-1100 ext4344
Boreal Supervisor:	Francis Dion (Diamond Drilling Manager) Boreal Drilling c/o Williams Operating Corp. PO Bag 500 Marathon, ON POT 2E0 (807)238-1100 ext4615
Program Supervisor:	Beth Leduc (Senior Open Pit Geological Technologist) Williams Operating Corp. PO Bag 500 Marathon, ON POT 2E0 (807)238-1100 ext4347

Aimee Langlais Certificate of Qualifications

I, Aimee Langlais, do hereby certify that:

- 1. I am a graduate from Carleton University, Ottawa, Ontario in 2012 with an Honours Bachelor of Science degree in Earth Science.
- 2. I have practiced my profession from 2011 to the present.
- 3. I have previously worked for one year in mineral exploration engaged in exploration for gold, and for the last 3.5 years employed in the Geology department of Williams Operating Corporation.
- 4. I have verified the contents of this report and believe this to be reasonable accurate and complete.

Since Sauglein

Aimee Langlais Project Coordinator Barrick Hemlo

March 6, 2016

Date

Rodney Barber Certificate of Qualified Person

I, Rodney Barber, P.Geo., do hereby that:

- 1. I am a practicing member of the Association of Professional Geoscientists of Ontario.
- 2. I am a graduate of Laurentian University, Sudbury, Ontario in 1988 with an Honours Bachelor of Science degree in Geology.
- 3. I have practiced my profession from 1988 to present.
- 4. I have previously worked for 13 years as an exploration geologist engaged in exploration for gold, base metals, and industrial minerals and for the last 15 years as a geologist employed by Williams Operating Corporation, including 3.5 years as the Mine Geologist at the David Bell Mine.
- 5. I have overseen the work contained within this report and that I have verified the contents of this report and believe this to be reasonably accurate and complete.

IONA G 6 RODNEYA. DAREER PRACTISING MEMBER C. Rodney Barber, P.Geo. 1361 ONTARI

Geology Superintendent Barrick Hemlo

Mar 7, 2016

Date