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

Thunder Bay District
April 25, 2017

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1.0 INTRODUCTION

In February 2016, the second year of the Open Pit Adit Exploration Diamond Drilling Program was started at William's Mine. Thirty two holes were drilled from January to April. This assessment report will document 6 holes totalling 2,952 meters. Holes W1617, W1620, W1621, W1622, W1623 and W1626 are contained within this report. All drilling for this program was done north of the west rock pile, and was exploring for the westerly extents of mineralization in the area.

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 claim is 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.

Lease Claim 274, 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.

With the acquisition of the Newmont's Golden Giant Mine in March 2010, Barrick now owns all three Hemlo mines. The Golden Giant Mine had been dormant since 2006, but mining restarted in Q3, 2010. Golden Giant Mine claims have a royalty of 3% on the first 50,000 ounces and 3.5% on ounces thereafter payable to Newmont Canada for ore mined from this area. An additional 3% royalty will be payable to McKinnon and Larche on all Shaft Pillar and Quarter Claim ounces.

In May 2014, production ceased from the David Bell Mine and David Bell Extension, i.e., the remnant mining at the Golden Giant Mine. Therefore the Williams Underground and Pit are the only remaining mines in production in the Hemlo camp.

In March 2015, Barrick-Hemlo finalized a deal to purchase certain lands to the west and north of the Williams Mine, as well as claims underlying the Tailings Management Facility from Newmont Canada. These are the leases known as CLM 271, CLM 272, CLM 284, CLM 277, CLM 278, as well as the portions of CLM 273 and CLM 274, including the Sceptre and Horizon claims that had not already been dealt to Barrick-Hemlo. As a result, no royalty is owed on the Sceptre claims and a 3% NSR royalty is owed on any future mineral production from the remainder of these claims.

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 2016, just over 7545 diamond drill holes had been completed at Williams Mine, with 79,900 meters planned for underground and surface site drilling.

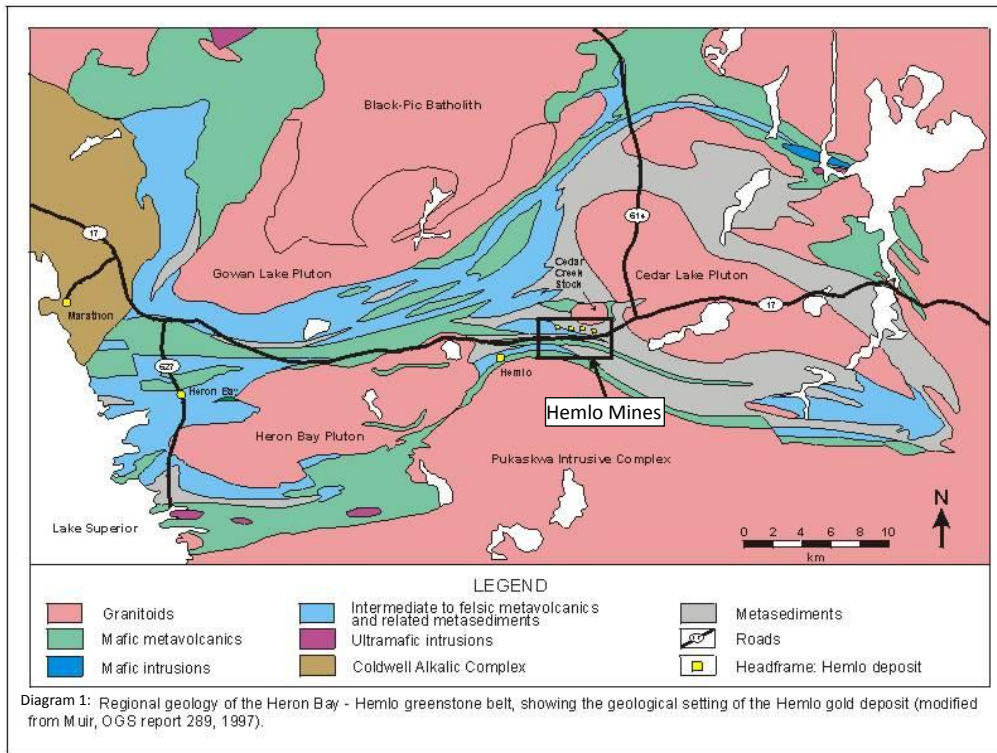
Production from the Williams Mine began in mid-1985 from the A Zone open pit located at the east end of the property. This was augmented by underground ore from the same area to sustain an initial 3000 tonnes/day mining rate. The completion of the main shaft, the B-Zone infrastructure and a mill expansion 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 9,000 to 10,000 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 volcanoclastic 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 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, feldspar, 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 1 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 muscovite has high Ba and V. 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 volcanoclastic 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

Two drill rigs, thirty two diamond drill holes, collared at twenty four different locations, were planned for the 2016 Open Pit Program at Williams. This report contains information from drillholes W1617, W1620-W1623 and W1626 (Figures 3, 4 and 5a-e).

Boreal Drilling was contracted to perform all diamond drilling for the 2016 program.

Drilling began in January, 2016, and was completed in April, 2016. Appendix G contains invoices for this period. Total cost for DDH W1617, W1620-W1623 and W1626 was \$228,885.14.

All holes were drilled using a KMB 1.4 S-3 diamond drill. The drilling schedule was two weeks on, one week off, with two 12-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 – F. Drill hole sections are provided in Figures 5a-e.

Hole ID	Easting (mE)	Northing (mN)	Elevation (mASL)	Azimuth (degrees)	Dip (degrees)	Length (m)
W1617	578142.2	5394734	357.439	180	-56	660
W1620	577887.9	5394762	364.11	180	-45	501
W1621	577828.3	5394745	364.11	180	-45	456
W1622	577767.7	5394745	371.242	180	-46	468
W1623	577647.9	5394756	371.088	179	-45.9	447
W1626	577947.9	5394766	362.267	180	-47	420

Table 1. Diamond drillhole collar and orientation details.

General Lithology

All drillholes were collared in hanging wall metasediments, intersecting the felsic fragmental, Moose Lake porphyry and toeing out in the foot wall metasediments.

W1617 hit bedrock at 2m down hole into the HW sediments rock unit. For the first 203m of drilling, the core was logged as alternating fragmental sediments to muscovite rich sediment and calc silicate rich sediment. Within the 203m there were 5 mafic intrusive intersections.

203m-372m was logged as the intermediate volcanoclastic sediments. Throughout this interval there was a fragmental unit consisting of alternating intervals of biotitic rich and sericitic rich units. There were 3 mafic intrusive's identified and at 328.61m-328.86m a Lamprophyr dyke was identified. At the 302m marking it was noted that feldspathization is being identified. This coincides with the contact into the next major lithology unit of Moose Lake porphyry, a high feldspathized unit typically considered ore. 372m-456m was logged intermittently as feldspathized and fragmental with occasional high amounts of biotite. Disseminated pyrite and molybdenite were noted throughout this major lithological interval as well as an interesting 60cm quartz vein that was identified which had pyrite and molybdenite within the interval.

Interval 456m-488m was logged similar to the interval 201m-272m as volcanoclastic sediments with high biotite content.

The Moose Lake Porphyry was as well logged again from 488m-562m, granodiortic porphyry's are noted within this major lithology unit and the contact at the end of the Moose Lake Porphyry is at a one meter wide mafic intrusive dyke.

The hole was concluded in the foot wall metasediments 563m-660m, with several granodioritic porphyry's alternating with calc silicate banding intervals, which contained Pyrrhotite Two mafic intrusive dyke's less than one meter wide were also observed.

W1620-W1623 and W1626 had 60m spacing between collars roughly along the same northing.

(Refer to Figure 3 for hole collar locations).

The below table summarizes the general lithology for holes W1620-W1623 and W1626. They are listed from westerly collar to east collar.

Lithology	W1623	W1622	W1621	W1620	W1626
HW Metasediment	6-240m	2.5-200m	6-240m	2.4-224	6-252
Muscovite Schist	No interval	No interval	No interval	No interval	210-211
Intermediate Volcaniclastic Sediments	240-351m	200-361m	240-342m	224-359m	252-337m
Felsic Metavolcanic/ Volcaniclastic	351-401m	361-416m	342-421m	359-432m	337-420m EOH
Intermediate Volcaniclastic Sediments	401-434m	416-424m	421-456m EOH	No interval	
FW Metasediment	434-447m EOH	424-468m EOH		432-501m EOH	

HW Metasediment- Within this banded rock unit, the above holes alternated through calc silicate laminations and strong sericitic alteration, as well as some laminated feldspathization. A very narrow quartz vein was observed in W1623, W1622 and W1621 but NOT in W1620 or W1626. The quartz vein was not mineralized.

W1623 mineralization was within a sericitic alteration, as well as a higher grade mineralization zone within a feldspathized fragmental unit.

W1622, W1621 and W1626 identified mineralization in the sericitic alteration of the sediments with localized pyrite banding. W1620 identified mineralization in the calc-silicate banding.

Muscovite Schist- W1626 was the sole hole that a muscovite schist interval that was logged within the metasediment rock.

Intermediate Volcaniclastic Sediment- The holes above were identified as strongly foliated biotitic/calcite unit with alternating feldspathization in the fine grained matrix. There were smaller intervals identified

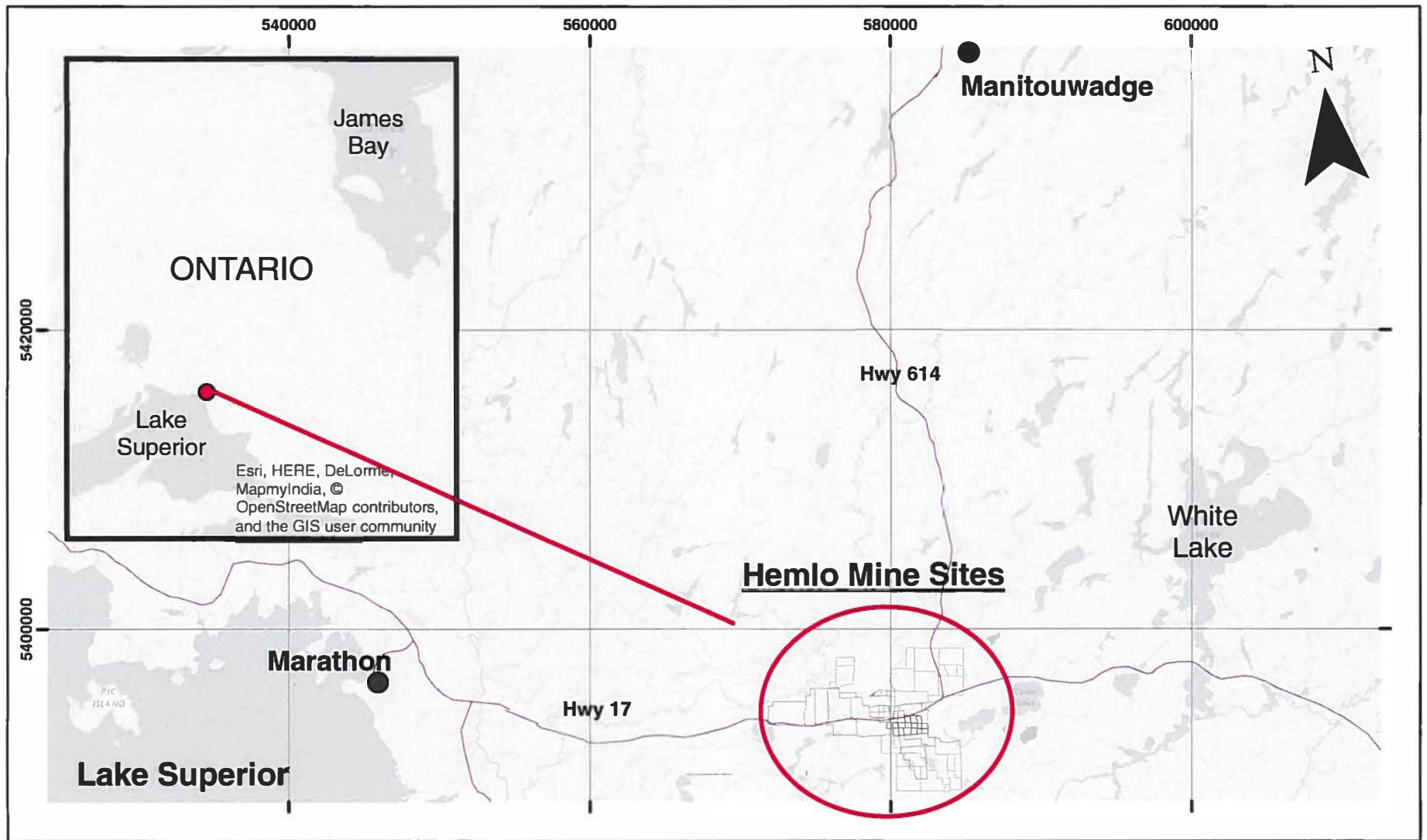
as a fragmental unit within this unit. This fragmental unit was mineralized in W1621. Mineralization was identified in the biotitic unit. W1626 had a showing of visible gold in a feldspathized fragmental unit.

Felsic Metavolcanic/Volcaniclastic- This unit is identified in the above collars as the Moose Lake Porphyry. Unit is fine grained and alternates through a sericitic muscovite alteration and a highly feldspathized alteration. Pervasive molybdenite and disseminated pyrite are present in mineralized intervals. There is a mafic intrusion seen in all the above holes in this unit.

End Of Hole Analysis- W1623, W1622 and W1621 drilled through another interval of the volcaniclastic sediments before ending the hole in the foot wall sediments along with W1620. W1623 had a one meter interval of amphibole rich banding.

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Legend

 Barrick Detailed Claims

Magnetic Declination:
6 deg 30 min W

Barrick Gold Inc., Hemlo Project
Bomby Township, Ontario, Canada
Thunder Bay Mining District

Figure 1
**Regional Property
Location Map**

UTM Nad 1983 Zone 16N
Created by: Beth Leduc
Date: April 25, 2017

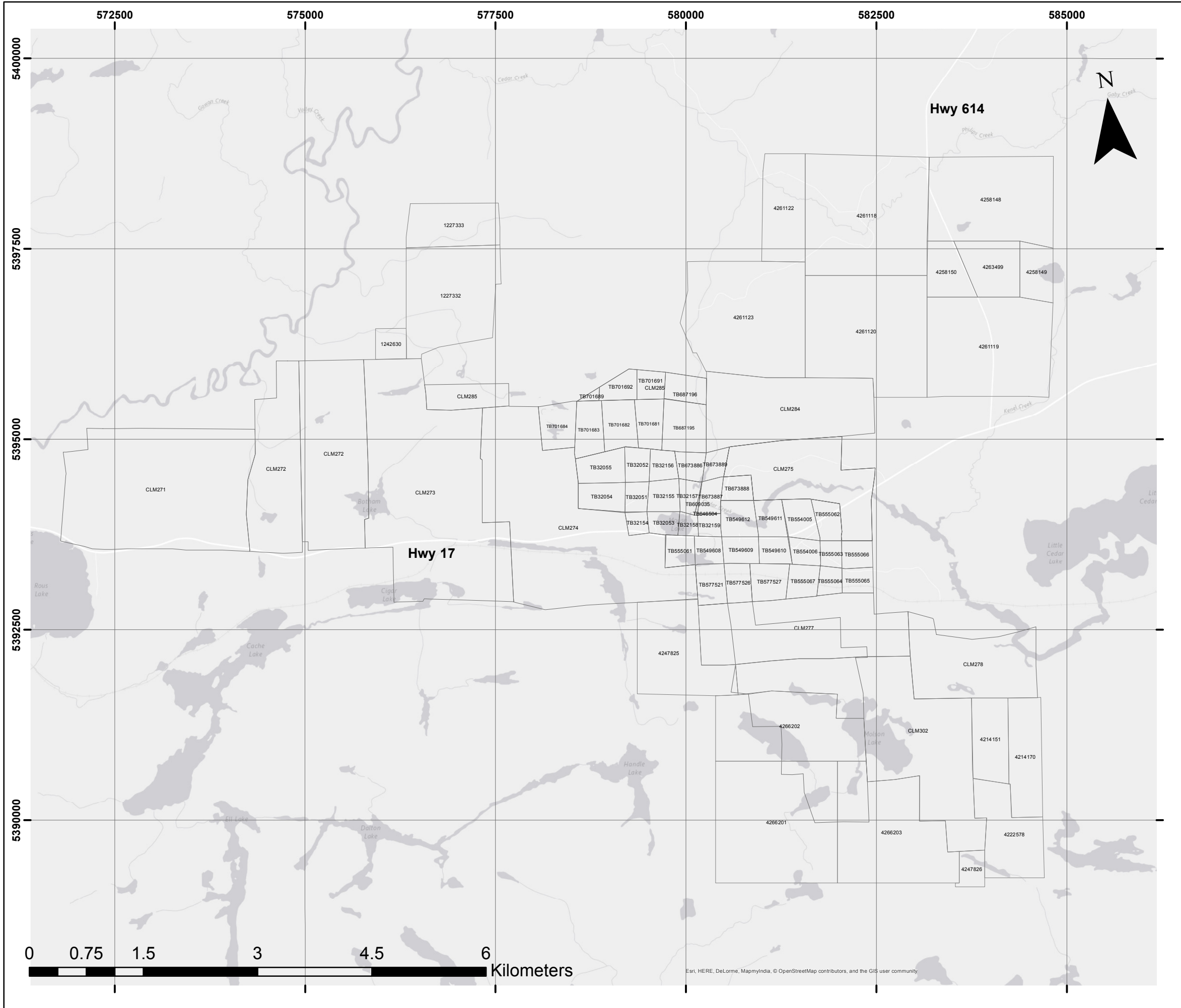
Barrick Gold Inc.
Hemlo Project
Bomby Township, Ontario, Canada
 Thunder Bay Mining District

UTM Nad 1983 Zone 16N
 Created by: Beth Leduc
 Date: April 25, 2017

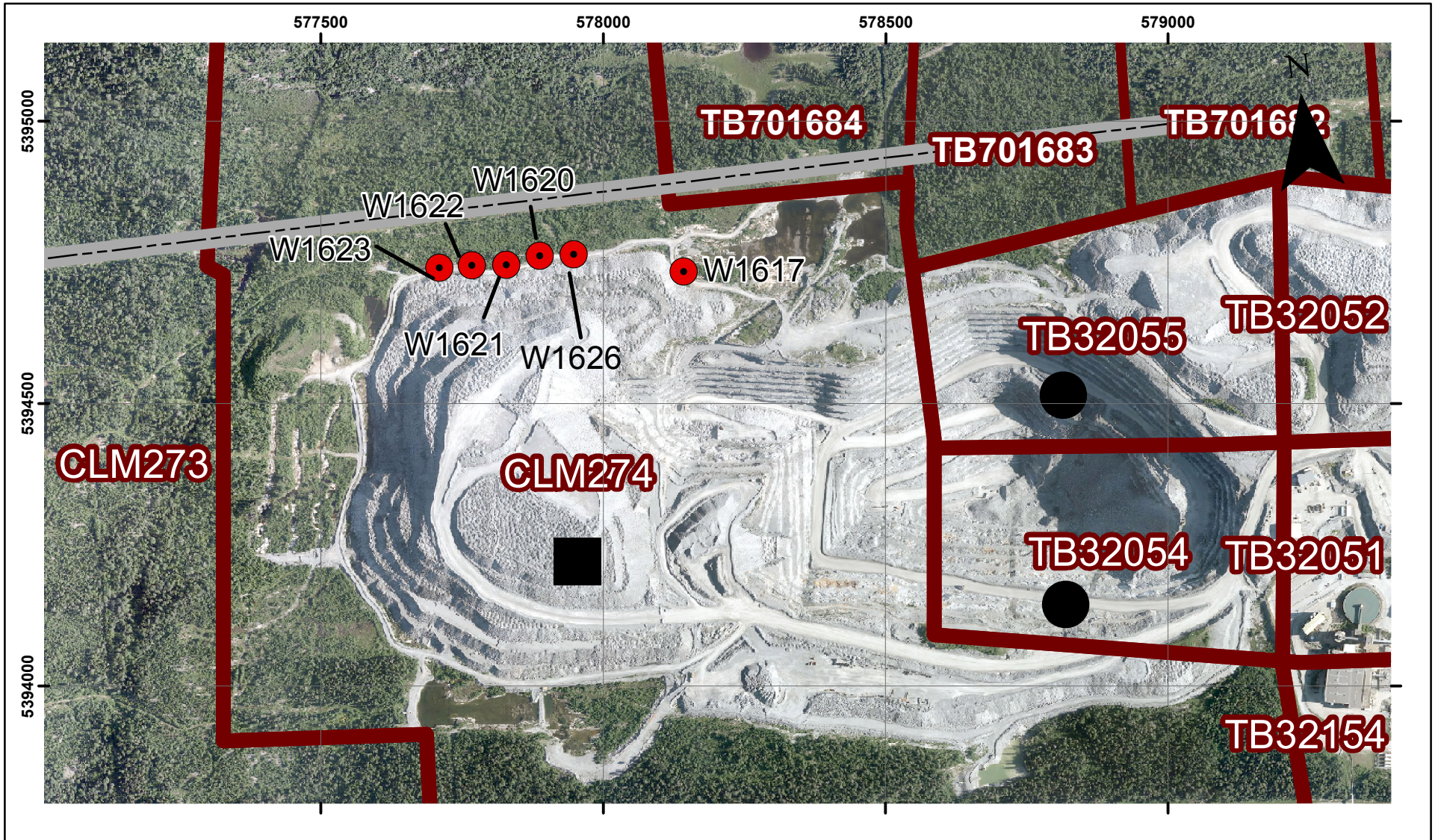
Figure 2
Local Property Location Map

 Barrick Detailed Claims

Magnetic Declination:
 6 deg 30 min W



Esri, HERE, DeLorme, MapmyIndia, © OpenStreetMap contributors, and the GIS user community



Legend

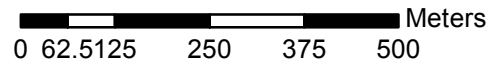
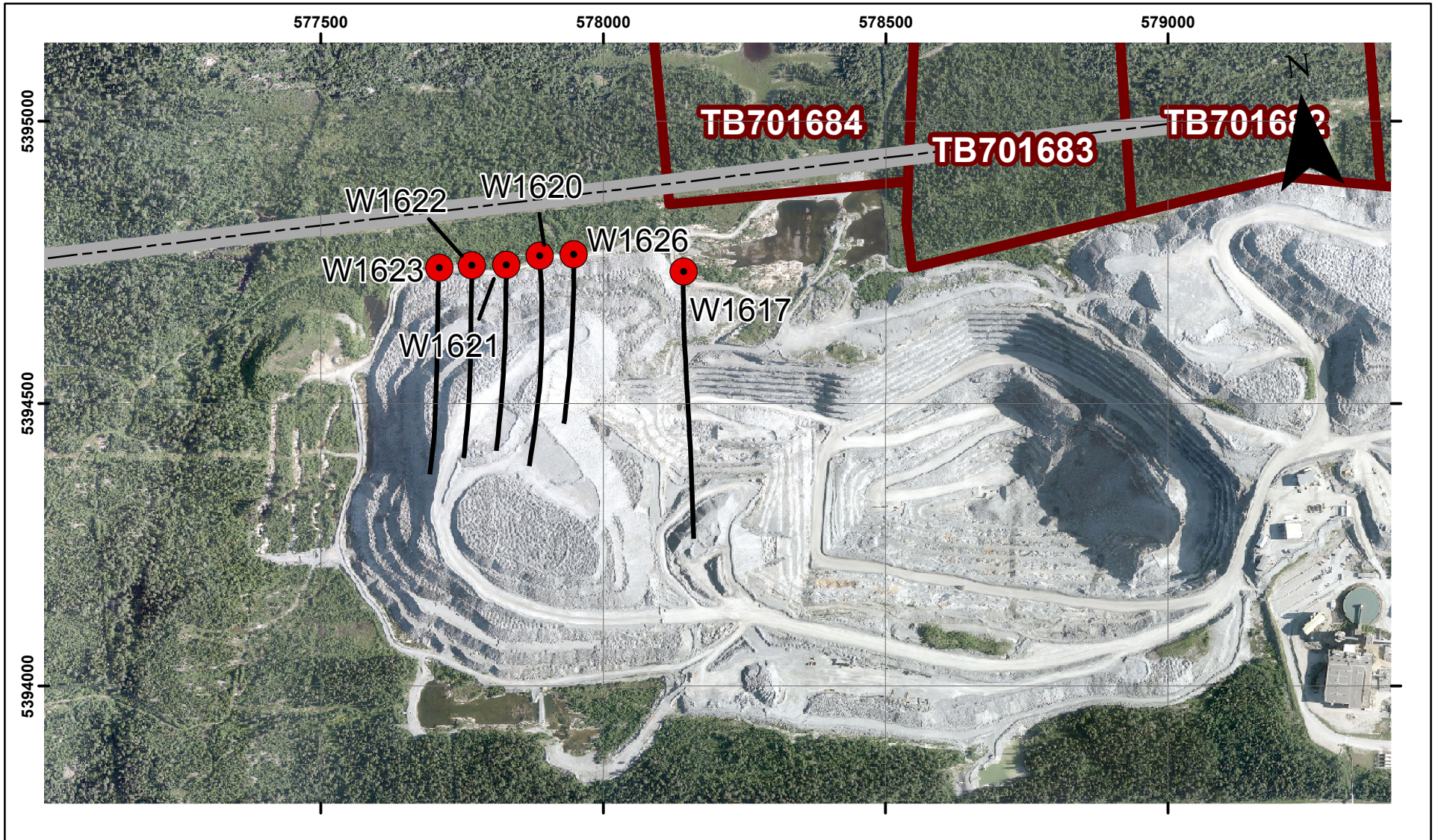
- 2016 Drillhole Collars
- Hydro

Surface/mining Rights

- Freehold Patent
- Leasehold Patent

Magnetic Declination:
6 deg 30 min W

<p>Barrick Gold Inc., Hemlo Project <i>Bomby Township, Ontario, Canada</i> Thunder Bay Mining District</p>	
<p>Figure 3 2016 Drillhole Collars</p>	<p>UTM Nad 1983 Zone 16N Created by: Beth Leduc Date: April 25, 2017</p>



Magnetic Declination:
6 deg 30 min W

Legend

- 2016 Drillhole Collars
- Drillhole Trace
- - - Hydro

<p>Barrick Gold Inc., Hemlo Project <i>Bomby Township, Ontario, Canada</i> Thunder Bay Mining District</p>	
<p>Figure 4 2016 Drillhole Traces</p>	<p>UTM Nad 1983 Zone 16N Created by: Beth Leduc Date: April 25, 2017</p>

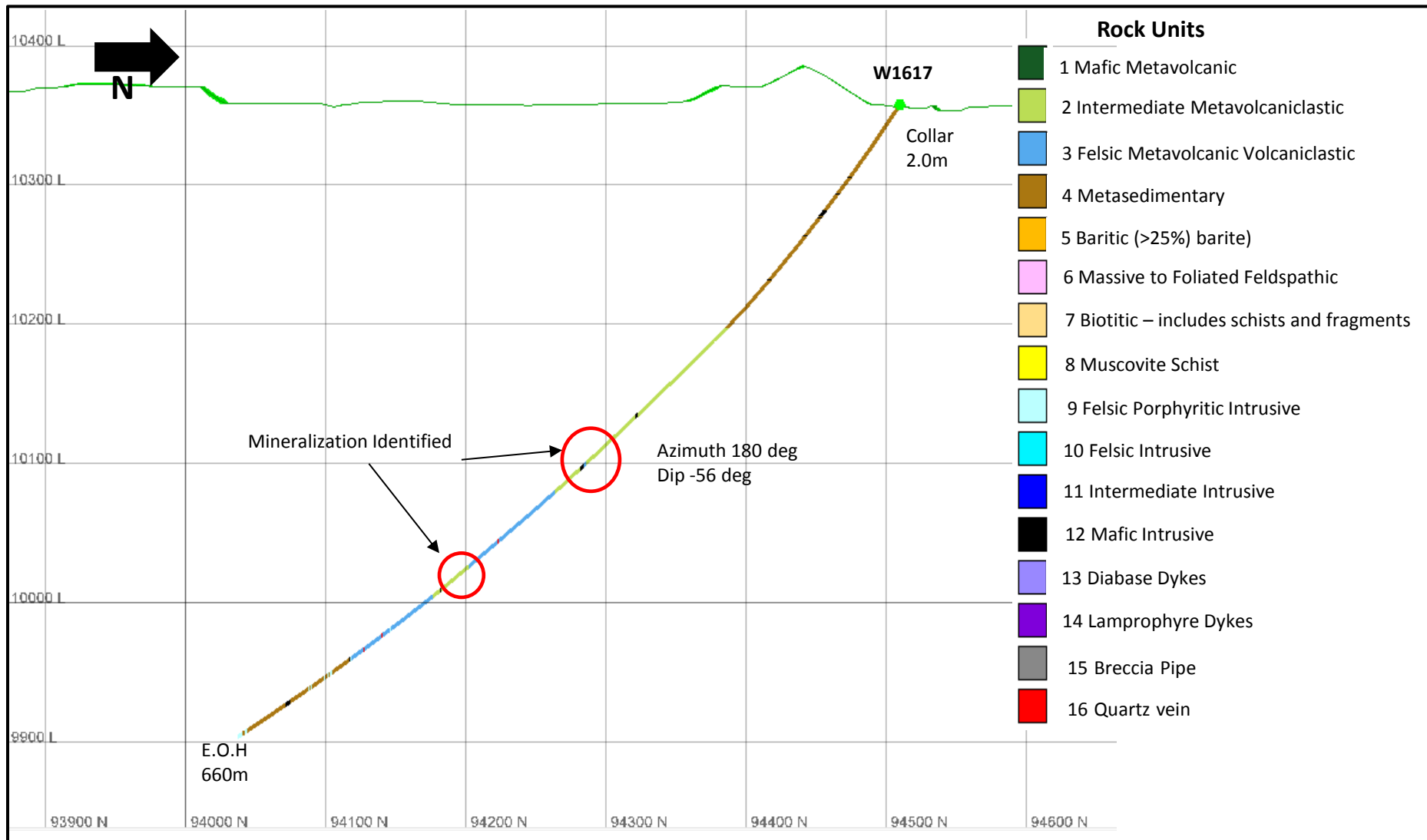


Figure 5a: DDH W1617 Cross Section, Major Lithology Section Along 78140 E

Barrick Gold Inc., Hemlo project
Lease Claim 274, Bomby Township, Ontario, Canada
 Thunder Bay Mining District
 (NOTE: Plotted grid is in local "C" Zone Grid)

Created by: Beth Leduc Date: April 25, 2017

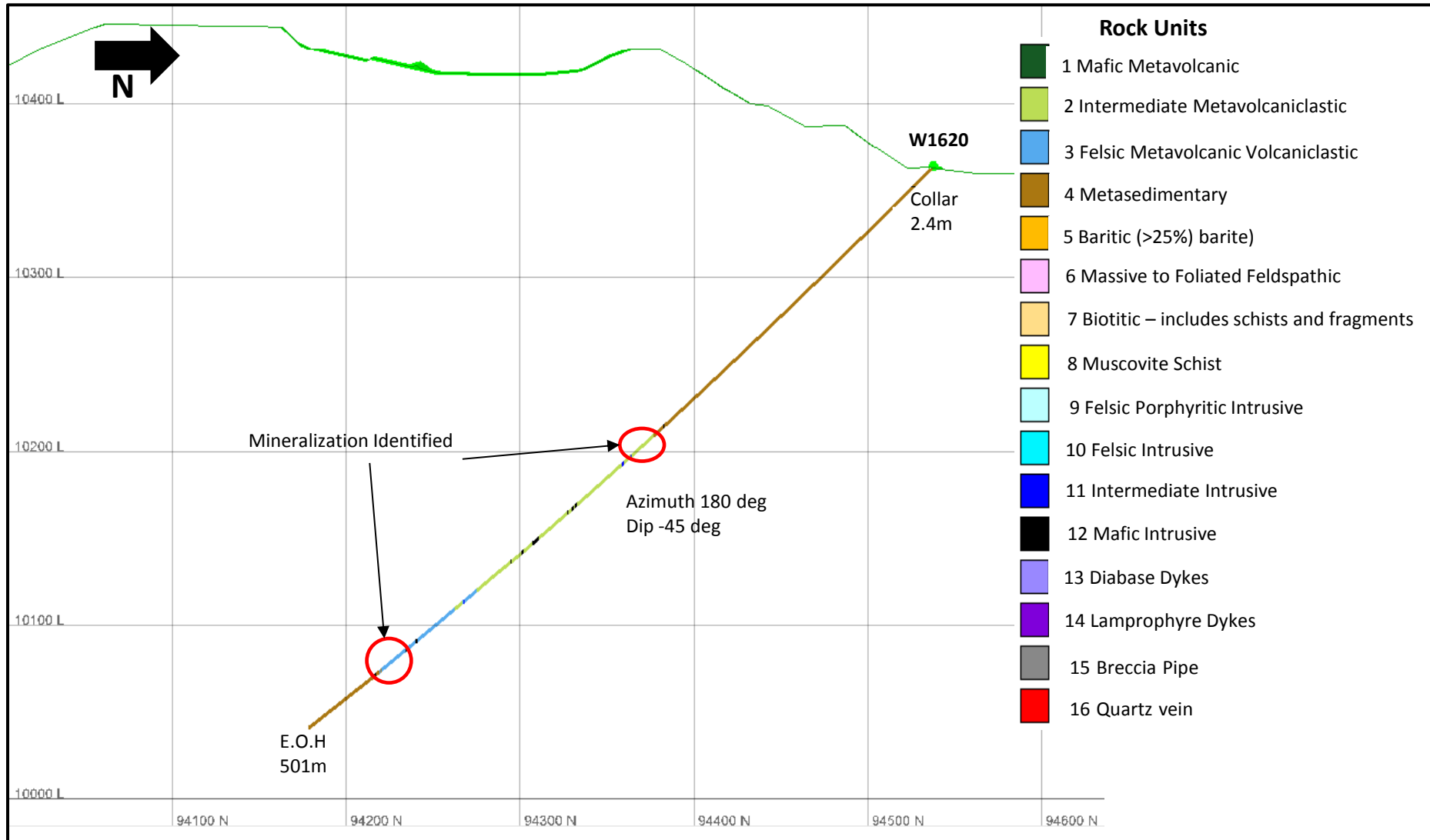


Figure 5b: DDH W1620 Cross Section, Major Lithology Section Along 77886 E

Barrick Gold Inc., Hemlo project
Lease Claim 274, Bomby Township, Ontario, Canada
 Thunder Bay Mining District
 (NOTE: Plotted grid is in local "C" Zone Grid)

Created by: Beth Leduc Date: April 25, 2017

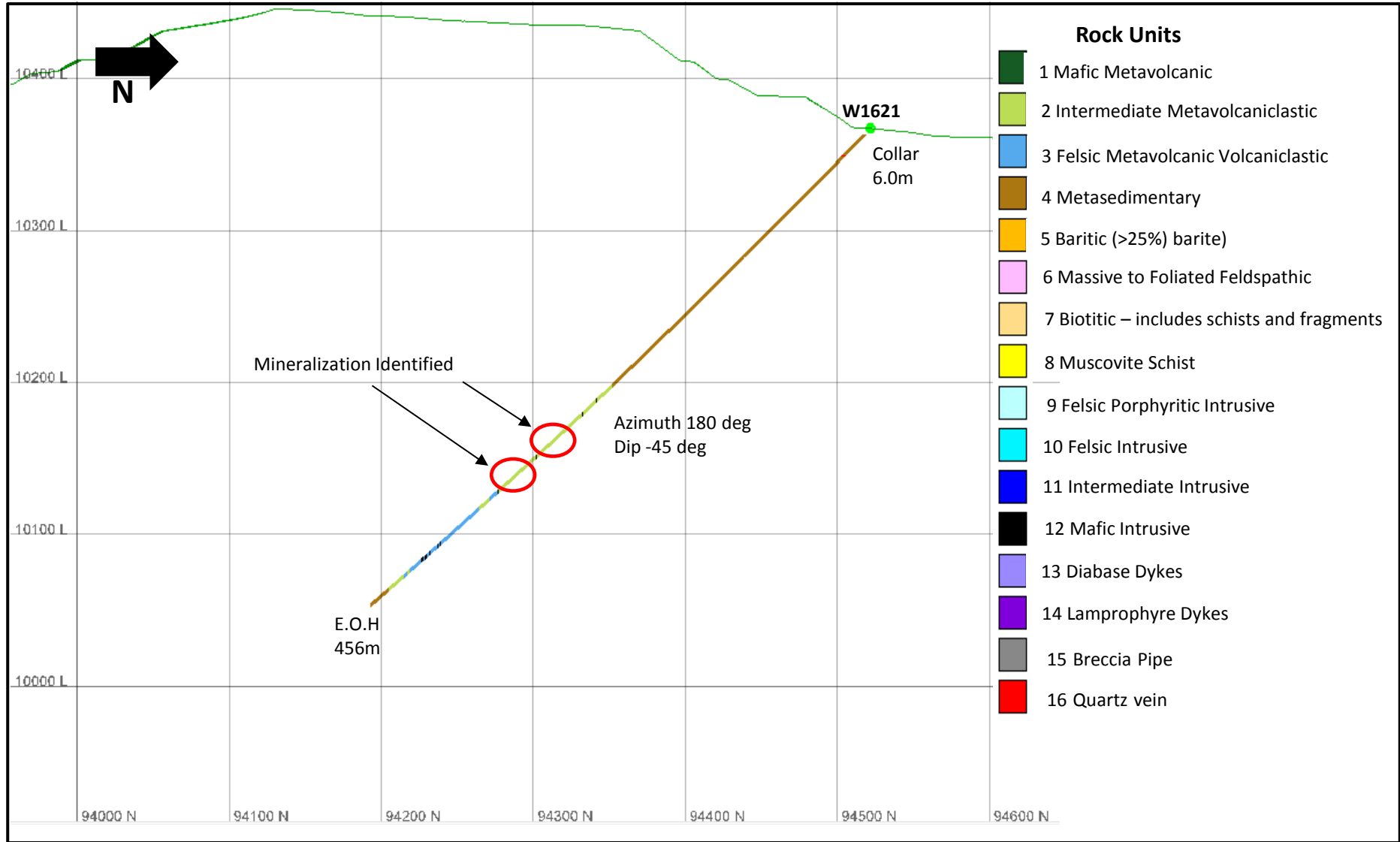


Figure 5c: DDH W1621 Cross Section, Major Lithology
Section Along 77826 E

Barrick Gold Inc., Hemlo project
Lease Claim 274, Bomby Township, Ontario, Canada
 Thunder Bay Mining District
 (NOTE: Plotted grid is in local "C" Zone Grid)

Created by: Beth Leduc Date: April 25, 2017

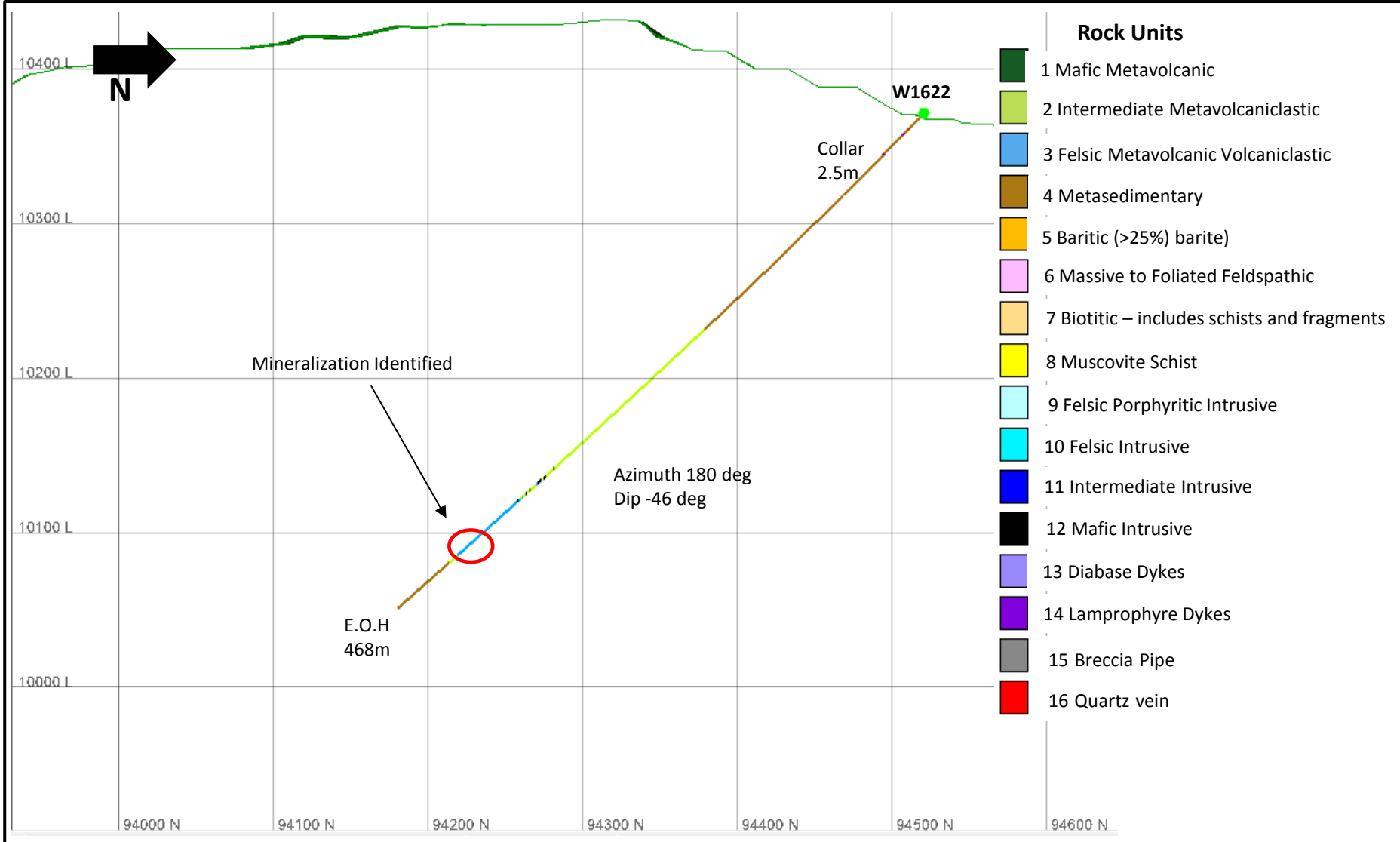


Figure 5d: DDH W1622 Cross Section, Major Lithology Section Along 77765 E

Barrick Gold Inc., Hemlo project
Lease Claim 274, Bomby Township, Ontario, Canada
 Thunder Bay Mining District
 (NOTE: Plotted grid is in local "C" Zone Grid)

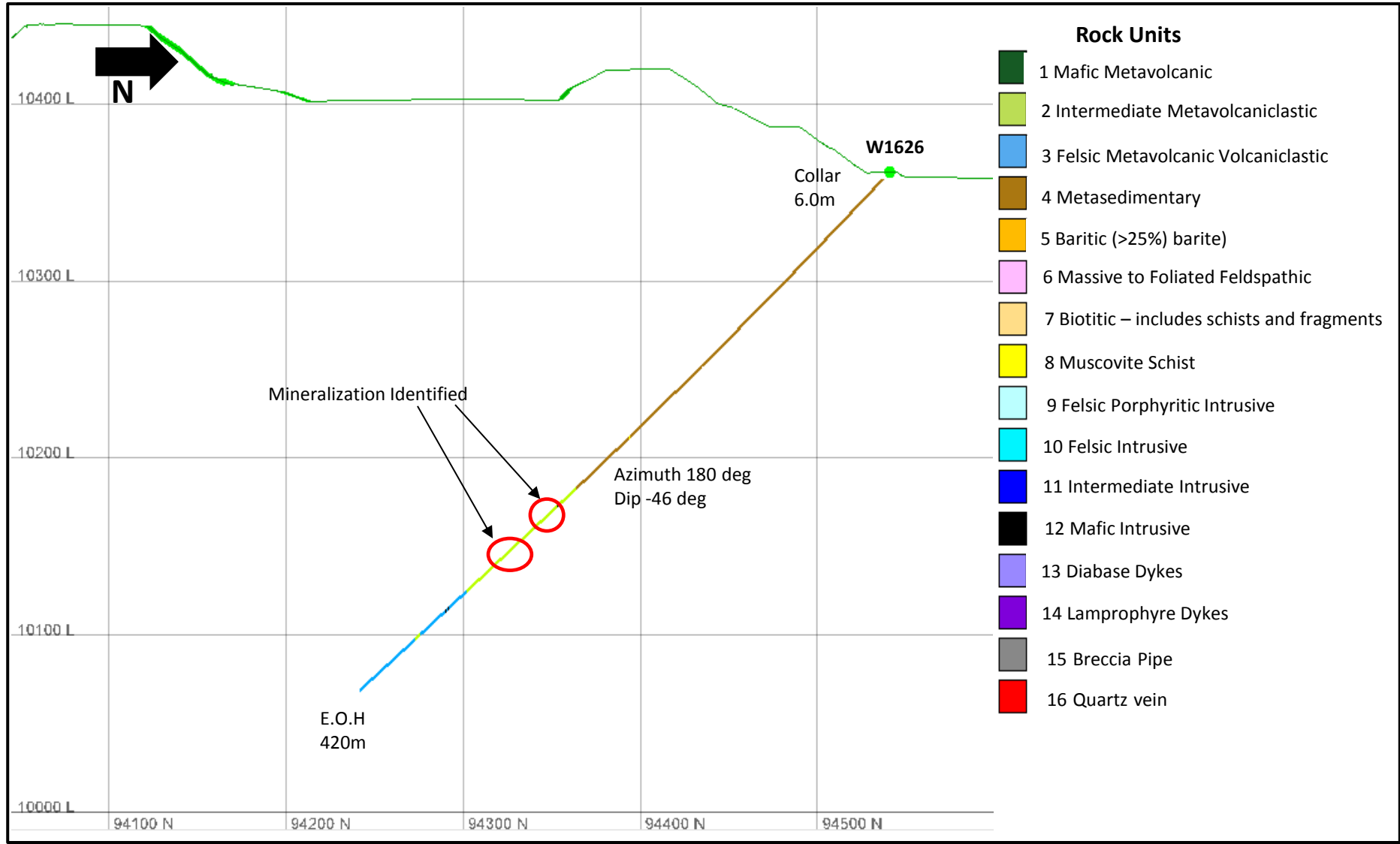


Figure 5e: DDH W1626 Cross Section, Major Lithology
Section Along 77765 E

Barrick Gold Inc., Hemlo project
Lease Claim 274, Bomby Township, Ontario, Canada
 Thunder Bay Mining District
 (NOTE: Plotted grid is in local "C" Zone Grid)

Created by: Beth Leduc Date: April 25, 2017

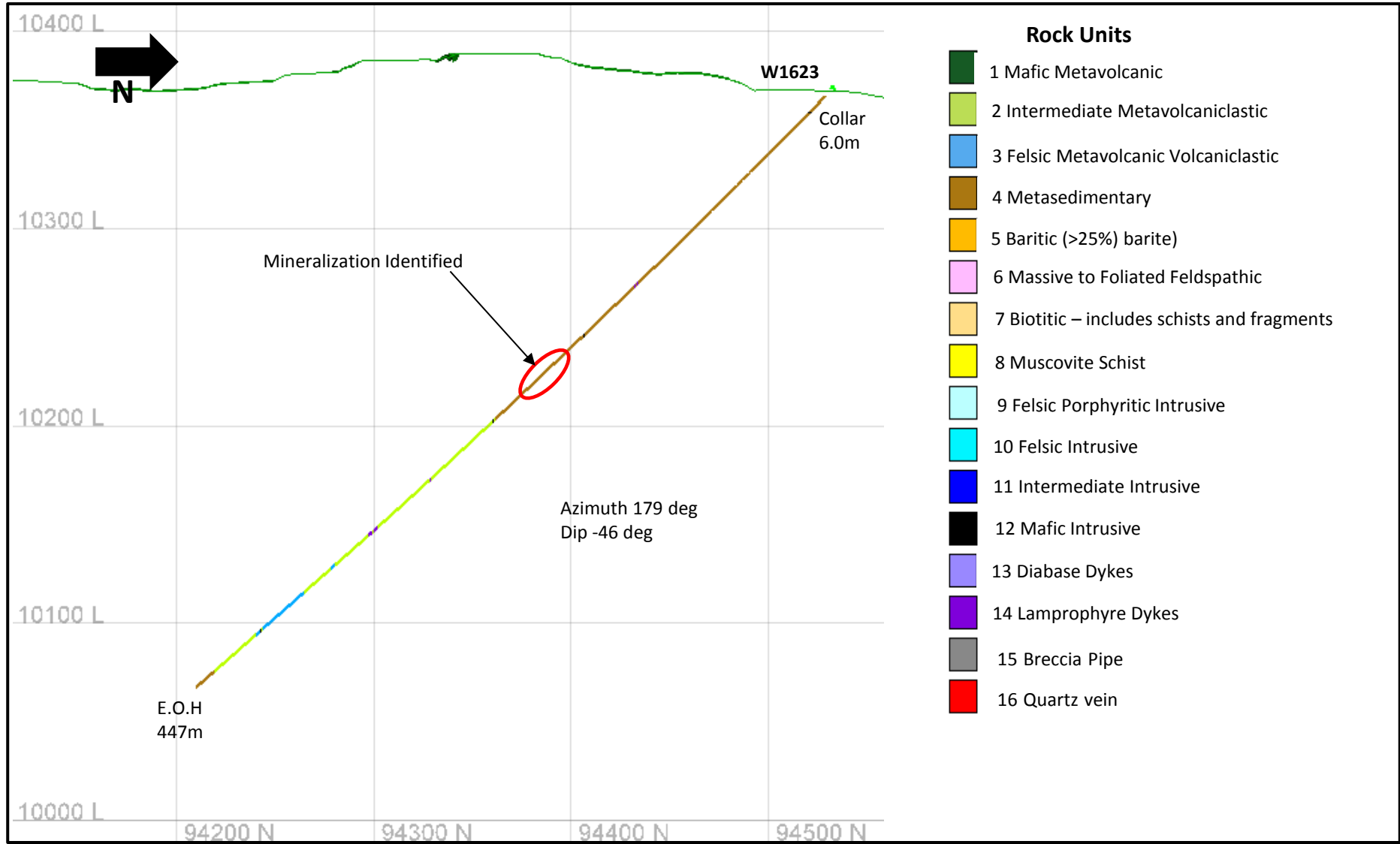


Figure 5f: DDH W1623 Cross Section, Major Lithology Section Along 77656 E

Barrick Gold Inc., Hemlo project
Lease Claim 274, Bomby Township, Ontario, Canada
 Thunder Bay Mining District
 (NOTE: Plotted grid is in local "C" Zone Grid)

Created by: Beth Leduc Date: April 25, 2017

Appendix A

Hemlo Geology Logging Legend

2012

Hemlo Geology Legend



BARRICK

HEMLO

Williams Operating

Corporation

David Bell Mine

Updated: 7/12/2012

GEOLOGY LEGEND

FROM – TO Defines the interval over which a particular rock type or characteristic occurs.

ROCK TYPE 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) banded | x) sheeting |
| l) laminated | y) magnetic |
| m) nodules or spots | z) tarnish and stain |

LC – lost core
PC – popcorn – like phenocrysts

C: ROCK FORMING MINERALS OF UNITS AND SUBUNITS

Ac- Actinolite	Dr – Dravite	Po – Pyrrhotite
Ak – Ankerite	Ep – Epidote	Pn – Pyroxene
Am – Amphibole	Fl – Fluorite	Qz – Quartz
Ah – Anhydrite	Fx – Feldspar	Rc – Rhodochrosite
Ap – Apatite	Gr – Graphite	Re – Realgar
As – Arsenopyrite	Gt – Garnet	Ro – Roscoelite
Ba – Barite	Pb – Galena	Ru – Rutile
Bi – Biotite	Vg – Visible Gold	Sl – Sillimanite
Bo – Bornite	Hm – Hematite	St – Staurolite
Ca – Calcite	Kf – Potassic Feldspar	Sb – Stibnite
Cb – Carbonate	Ky – Kyanite	Sp – Sphalerite
Cd – Chloritoid	Mg – Magnetite	Te – Tellurides
Cl – Chlorite	Mo – Molybdenite	Ti – Sphene
Cp – Chalcopyrite	Mu – Muscovite	To – Tourmaline
Hg – Cinnabar	Or – Orpiment	Tr – Tremolite
	Ph – Phlogopite	Ze – Zeolite
	Py – Pyrite	

ALTERATION

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

<u>Alteration</u>	<u>Type</u>
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
WM	weak to moderate	I	intense
M	moderate		
MS	moderate to strong		
S	strong		

Shade and Colour Index for Mineral Description

dk	dark	*	(eg. 12 dykes)
med	medium	*	
lt	light	*	(eg. 8's)

gy	grey
blu	blue
grn	green
vio	purple
pnk	pink
brn	brown
rd	red
yel	yellow
blk	black
wht	white

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

Abbreviations

Vfg = Very Fine Grained – indistinguishable
 fg = Fine Grained = ≤ 0.5 mm
 mg = Medium Grained = 0.5 – 1.9 mm
 cg = Coarse Grained = ≥ 2 mm

FC: Fracture count; defined as the average number of fractures in 1m of core for any particular unit.

RQD: 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.

SF: 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)

ZONE Used for highlighting information

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

APPENDIX I

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 volcanoclastic 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 Volcanoclastic 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 volcanoclastic 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 foliated calcareous unit, variably biotitic and sericitic matrix with > 5% fragments 5-50mm long and lineated. Heterolithic, but fragments are most often sub-rounded to sub-angular leucocratic to bone white and feldspathic.

2s: Feldspathized Intermediate Volcaniclastics

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

2cs: Feldspathized Fragmental Intermediate Volcaniclastic

Fine grained, moderately to strongly feldspathic, 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_2 . 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 polytic 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 sillimanite.

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. Quartzo-feldspathic 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.

4c: Fragmental Sedimentary Rocks/metaconglomerate

Fine to medium grained, typically banded to laminated sediments containing pebble-cobble size fragments. Fragments may be heterolithic and elongated, locally feldspathized. A surface example of which can be seen on Heritage outcrop, fragments there are an example of fold related fragments.

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 ore-associated minerals along the shear planes (to be noted separately in the Mineralogy Table).

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

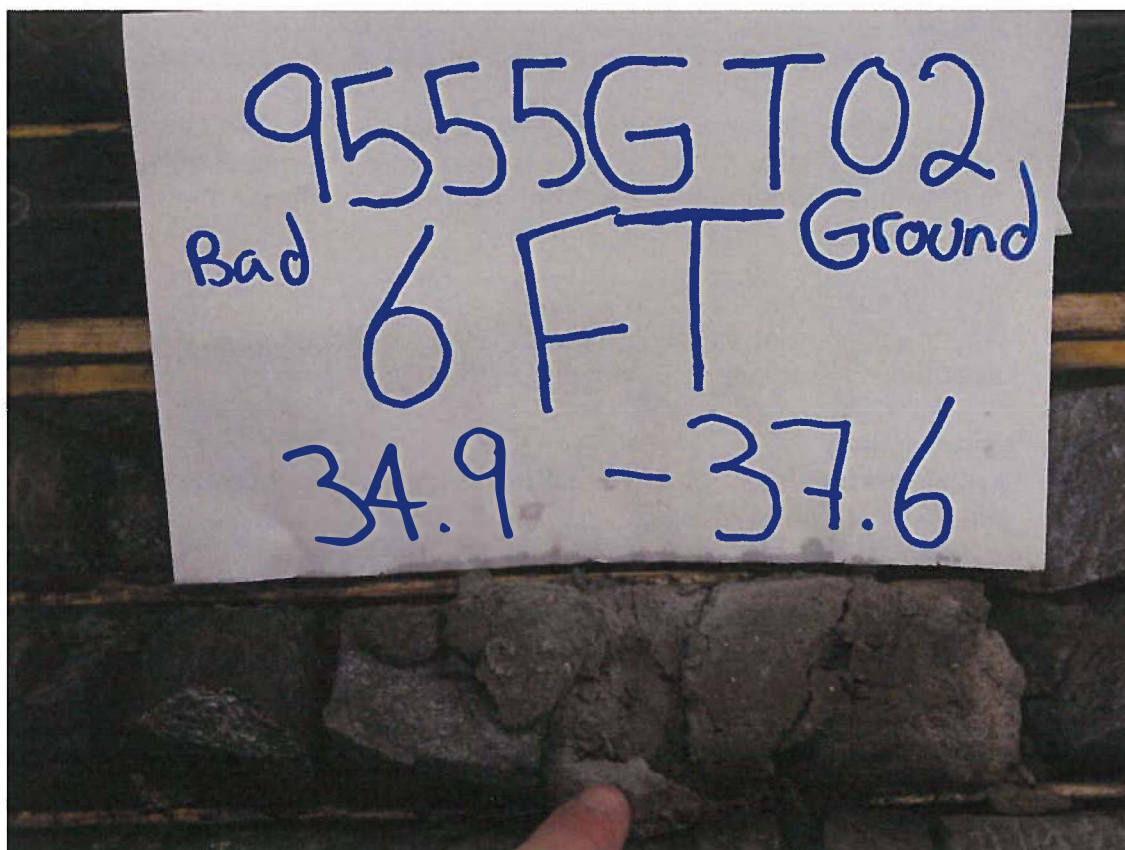
6Mu: Sericitic 6 unit

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 anastomosing 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) Muscovite Schist

- 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.

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) Breccia
- 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
- (l) laminated - < 1 cm thick bands
- (m) nodules/spots - circular or near circular occurrences
- (n) shear - incremental displacement (step like displacement)
- ductile movement

- 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 W1617 Drill Logs

DDH W1617 Major Lithology Log

Hole ID: W1617 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: twilliams
Collar Depth: 2.0 m Hole Depth: 660 m
Collar Coordinates: 578142.2mE 5394734mN (UTM NAD83)
Azimuth: 180 degrees Dip: -56 degrees
Core Size: NQ
Drilling Start Date: Feb 2, 2016
Drilling End Date: Feb 16, 2016
Drilled by: Boreal Drilling

LoggedDate	Interval (m)		Major Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Texture 3	Intensity	Mineralization	Percentage Mineralization
	From	To											
4-Feb-16	0	2	0										
4-Feb-16	2	41.07	4q	medgy-dkgy	f-mg	q	M						
4-Feb-16	41.07	46.27	4c	medgy-dkgy	f-mg	c	MS						
4-Feb-16	46.27	50.96	4s	ltgy-dkgy	f-mg	k	M						
8-Feb-16	50.96	62.83	4q	brngy	f-mg	j	M						
8-Feb-16	62.83	64.07	12	blk	f-mg	q							
8-Feb-16	64.07	73.32	4q	brngy	f-mg	j	M						
8-Feb-16	73.32	77.9	4Mu	brngy	f-mg	k	M						
8-Feb-16	77.9	78.57	12	dkgy	f-mg	j	WM						
8-Feb-16	78.57	81.12	4Mu	brngy	f-mg	k	MS						
8-Feb-16	81.12	92.2	4q	medgy-dkgy	f-mg	j	WM						
8-Feb-16	92.2	98.3	12	grngry	f-mg	q							
8-Feb-16	98.3	98.7	4q	ltgy-dkgy	f-mg	j	WM						
8-Feb-16	98.7	99.8	12	grngry	f-mg	q	WM						
8-Feb-16	99.8	107.75	4q	brngy	f-mg	j	M						
8-Feb-16	107.75	109.87	4kt	ltgy-dkgy	f-mg	k	M						
8-Feb-16	109.87	110.63	4c	medgy	f-mg	c	M						
8-Feb-16	110.63	114.66	4kt	brngy	f-mg	k	M						
8-Feb-16	114.66	115.74	12	grngry	f-mg	q							
8-Feb-16	115.74	124.95	4c	medgy-dkgy	f-mg	c	M						
9-Feb-16	124.95	136.9	4kt	brngy	f-mg	k	WM						
9-Feb-16	136.9	139.57	4Mu	ltgy-medgy	f-mg	k	MS						
9-Feb-16	139.57	141.06	4kt	ltgy-dkgy	f-mg	k	M						
9-Feb-16	141.06	141.99	4c	brngy	f-mg	c	WM						
9-Feb-16	141.99	144.53	4q	medgy	f-mg	q	WM						
9-Feb-16	144.53	145.24	4c	medgy-dkgy	f-mg	c	WM						
9-Feb-16	145.24	149.1	4kt	medgy-dkgy	f-mg	k							
9-Feb-16	149.1	151.71	4q	brngy	f-mg	q	M						
9-Feb-16	151.71	152.55	4Mu	ltgy-medgy	f-mg	j	M						
9-Feb-16	152.55	156.4	4q	brngy	f-mg	q	WM						
9-Feb-16	156.4	156.8	12	grngry	f-mg	j	WM						
9-Feb-16	156.8	189.06	4q	medgy	f-mg	q	M						
9-Feb-16	189.06	189.71	4Mu	ltgy-medgy	f-mg	k	M						
9-Feb-16	189.71	190.69	4q	ltgy-medgy	f-mg	j	WM						
9-Feb-16	190.69	203.28	4Mu	ltgy-medgy	f-mg	k	WM						
9-Feb-16	203.28	212.59	2Bi	brngy	f-mg	j	WM						
9-Feb-16	212.59	215.75	2c	medgy-dkgy	f-mg	c	M						
9-Feb-16	215.75	227	2Bi	medgy	f-mg	j	WM						
9-Feb-16	227	229.81	2s	grngry	f-mg	j	WM						
9-Feb-16	229.81	231.84	2Bi	medgy-dkgy	f-mg	j	M						
9-Feb-16	231.84	234.41	2c	ltgy-dkgy	f-mg	c	MS						
9-Feb-16	234.41	234.76	12	dkgy	f-mg	q	M						
9-Feb-16	234.76	241.61	2c	medgy-dkgy	f-mg	c	MS						
9-Feb-16	241.61	285.82	2Bi	medgy-dkgy	f-mg	j	M						
10-Feb-16	285.82	289.1	2c	medgy	f-mg	c	M						
10-Feb-16	289.1	292.25	2Bi	medgy	f-mg	j	M						
10-Feb-16	292.25	293.09	12	blk	f-mg	j	WM						
10-Feb-16	293.09	293.69	2Mu	ltgy-medgy	f-mg	j	MS						
10-Feb-16	293.69	294	12	blk	f-mg	j	S						
10-Feb-16	294	295.7	2c	medgy	f-mg	c	M						
10-Feb-16	295.7	302.44	2Bi	dkgy	f-mg	j	W						
10-Feb-16	302.44	306.18	2cs	ltgy	f-mg	c	WM						
10-Feb-16	306.18	306.99	2Bi	dkgy	f-mg	j	W						
10-Feb-16	306.99	328.61	2s	ltgy-medgy	f-mg	j	WM						
10-Feb-16	328.61	328.86	14	blk	f-mg	j	W						
10-Feb-16	328.86	329.59	2s	medgy	f-mg	j	WM						
10-Feb-16	329.59	330.23	2Bi	dkgy	f-mg	j	W						
10-Feb-16	330.23	331.08	2s	ltgy-dkgy	f-mg	j	W						
10-Feb-16	331.08	333.91	2Bi	dkgy	f-mg	j	W						
10-Feb-16	333.91	336.11	2s	ltgy-medgy	f-mg	j	W						

DDH W1617 Major Lithology Log

Hole ID: W1617 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: twilliams
Collar Depth: 2.0 m Hole Depth: 660 m
Collar Coordinates: 578142.2mE 5394734mN (UTM NAD83)
Azimuth: 180 degrees Dip: -56 degrees
Core Size: NQ
Drilling Start Date: Feb 2, 2016
Drilling End Date: Feb 16, 2016
Drilled by: Boreal Drilling

LoggedDate	Interval (m)		Major Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Texture 3	Intensity	Mineralization	Percentage Mineralization
	From	To											
10-Feb-16	336.11	341.12	2Bi	medgy	f-mg	j	M						
10-Feb-16	341.12	342.06	2c	medgy	f-mg	c	M						
10-Feb-16	342.06	343.31	2s	medgy-dkgy	f-mg	j	WM						
10-Feb-16	343.31	345.05	3fs	ltgy	f-mg	f	MS						
10-Feb-16	345.05	348.47	12	grngry	f-mg	j	W						
10-Feb-16	348.47	358.63	2c	medgy-dkgy	f-mg	c	W						
10-Feb-16	358.63	365.88	2Bi	medgy	f-mg	j	WM						
10-Feb-16	365.88	367.08	2Mu	ltgy-medgy	f-mg	j	M						
10-Feb-16	367.08	372.61	2Bi	ltgy-medgy	f-mg	j	WM						
10-Feb-16	372.61	390.14	3fs	ltgy	f-mg	f	MS						
10-Feb-16	390.14	402.16	3Bi	ltgy-medgy	f-mg	j	WM						
10-Feb-16	402.16	405.06	3c	medgy	f-mg	c	MS						
10-Feb-16	405.06	406	3sMu	medgy-dkgy	f-mg	j	WM						
10-Feb-16	406	410.49	3Bi	medgy	f-mg	f	WM						
10-Feb-16	410.49	420.62	3c	medgy-dkgy	fg	c	MS						
11-Feb-16	420.62	421.82	3Bi	ltgy-dkgy	f-mg	f	M						
11-Feb-16	421.82	425.43	3c	medgy	f-mg	c	MS						
11-Feb-16	425.43	426.41	3fs	ltgy	f-mg	f	MS						
11-Feb-16	426.41	427.08	3c	ltgy-medgy	f-mg	c	WM						
11-Feb-16	427.08	427.71	16	wht	f-mg								
11-Feb-16	427.71	430.86	3c	ltgy-medgy	f-mg	c	MS						
11-Feb-16	430.86	444.56	3fs	ltgy	f-mg	f	MS						
11-Feb-16	444.56	446.52	3f	medgy	f-mg	f	WM						
11-Feb-16	446.52	447	3c	medgy-dkgy	f-mg	f	WM						
11-Feb-16	447	449.47	3Bi	medgy-dkgy	f-mg	f	WM						
11-Feb-16	449.47	451.16	3fs	ltgy	f-mg	f	MS						
11-Feb-16	451.16	454.62	3c	ltgy-medgy	f-mg	f	M						
11-Feb-16	454.62	456.67	2Bi	medgy-dkgy	f-mg	j	WM						
11-Feb-16	456.67	457.05	2c	medgy	f-mg	c	MS						
11-Feb-16	457.05	461.74	2Bi	medgy-dkgy	f-mg	j	WM						
11-Feb-16	461.74	472.25	2s	ltgy-medgy	f-mg	j	M						
11-Feb-16	472.25	480.37	2Bi	medgy-dkgy	f-mg	j	WM						
11-Feb-16	480.37	480.75	12	grngry	f-mg	j	M						
11-Feb-16	480.75	482.43	2Bi	medgy-dkgy	f-mg	j	WM						
11-Feb-16	482.43	484	2Mu	ltgy-medgy	f-mg	j	WM						
11-Feb-16	484	488	2Bi	ltgy-medgy	f-mg	j	M						
11-Feb-16	488	495.18	3sMu	ltgy-medgy	f-mg	j	WM						
11-Feb-16	495.18	498.23	3Bi	medgy-dkgy	f-mg	j	M						
11-Feb-16	498.23	516.75	3sMu	ltgy-medgy	f-mg	j	MS						
16-Feb-16	516.75	526.12	3Bi	medgy-dkgy	f-mg	f	WM						
16-Feb-16	526.12	527.07	9f	grngry	f-mg	f	MS						
16-Feb-16	527.07	529	3fs	medgy-dkgy	f-mg	f	M						
16-Feb-16	529	533.8	3sMu	ltgy-medgy	f-mg	j	MS						
16-Feb-16	533.8	534.32	16	wht	f-mg	q							
16-Feb-16	534.32	536.19	3fs	ltgy-medgy	f-mg	f	WM						
16-Feb-16	536.19	539.49	3sMu	ltgy-medgy	f-mg	j	M						
16-Feb-16	539.49	543.25	3fs	ltgy-medgy	f-mg	j	WM						
16-Feb-16	543.25	545.94	3sMu	ltgy-medgy	f-mg	j	M						
16-Feb-16	545.94	549.56	3Bi	medgy-dkgy	f-mg	j	M						
16-Feb-16	549.56	550.19	16	ltgy-medgy	f-mg	j	MS						
16-Feb-16	550.19	550.71	9f	medgy-dkgy	f-mg	f	MS						
16-Feb-16	550.71	561.29	3Bi	medgy	f-mg	j	WM						
16-Feb-16	561.29	562.28	9f	medgy	f-mg	f	WM						
16-Feb-16	562.28	563.39	12	blk	fg	j	W						
16-Feb-16	563.39	576.11	4Mu	ltgy-medgy	f-mg	j	MS						
16-Feb-16	576.11	577.72	4q	medgy	f-mg	j	M						
16-Feb-16	577.72	580.18	9f	medgy-dkgy	f-mg	f	M						
16-Feb-16	580.18	581.61	4q	medgy-dkgy	v-mg	j	WM						
16-Feb-16	581.61	582.43	9f	medgy	f-mg	f	M						
16-Feb-16	582.43	584.71	4q	medgy-dkgy	f-mg	j	WM						

DDH W1617 Major Lithology Log

Hole ID: W1617 Project Code: WOC Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: twilliams
 Collar Depth: 2.0 m Hole Depth: 660 m
 Collar Coordinates: 578142.2mE 5394734mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -56 degrees
 Core Size: NQ
 Drilling Start Date: Feb 2, 2016
 Drilling End Date: Feb 16, 2016
 Drilled by: Boreal Drilling

LoggedDate	Interval (m)		Major Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Texture 3	Intensity	Mineralization	Percentage Mineralization
	From	To											
16-Feb-16	584.71	585.3	9f	medgy-dkgy	f-mg	f	M						
16-Feb-16	585.3	587.38	4k	brngy	f-mg	j	M						
16-Feb-16	587.38	588.04	9f	medgy-dkgy	f-mg	f	MS						
16-Feb-16	588.04	595.74	4kt	brngy	f-mg	k	M						
16-Feb-16	595.74	596.92	9f	medgy-dkgy	f-mg	f	M						
16-Feb-16	596.92	597.49	4kt	brngy	f-mg	k	WM						
16-Feb-16	597.49	599.33	9f	ltgy-medgy	f-mg	f	M						
16-Feb-16	599.33	605.2	4kt	brngy	f-mg	k	M						
16-Feb-16	605.2	606.5	4Mu	ltgy-dkgy	f-mg	k	M						
16-Feb-16	606.5	611.97	4kt	brngy	f-mg	k	M						
16-Feb-16	611.97	615	4q	brngy	f-mg	q	WM						
16-Feb-16	615	618.65	12	medgy-dkgy	f-mg	j	W						
16-Feb-16	618.65	628.84	4q	brngy	f-mg	q	M						
16-Feb-16	628.84	629.15	12	medgy-dkgy	f-mg	j	W						
17-Feb-16	629.15	632.1	4q	medgy-dkgy	f-mg	j	WM						
17-Feb-16	632.1	637.62	4kt	grngry	f-mg	k	WM						
17-Feb-16	637.62	649.88	4Mu	ltgy-dkgy	f-mg	k	M						
17-Feb-16	649.88	650.43	4kt	grngry	f-mg	k	M						
17-Feb-16	650.43	652.54	4Mu	ltgy-medgy	f-mg	j	WM						
17-Feb-16	652.54	654.2	9Mu	medgy-dkgy	f-mg	f	WM						
17-Feb-16	654.2	656.25	4Mu	ltgy-medgy	f-mg	j	WM						
17-Feb-16	656.25	660	9Mu	medgy-dkgy	v-mg	f	WM						

DDH W1617 Minor Lithology Log

Hole ID: W1617 Project Code: WOC Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: twilliams
 Collar Depth: 2.0 m Hole Depth: 660 m
 Collar Coordinates: 578142.2mE 5394734mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -56 degrees
 Core Size: NQ
 Drilling Start Date: Feb 2, 2016
 Drilling End Date: Feb 16, 2016
 Drilled by: Boreal Drilling

Interval (m)		Minor Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Major Surrounding Rock Type
From	To								
6.34	6.51	16	wht	f-mg	o	M			16
23.8	24.1	16	wht	f-mg	q				16
34.34	34.43	16	wht	f-mg	q				16
35.05	35.35	16	wht	f-mg	q				16
91.47	91.6	12	dkgy	f-mg	q	WM			12
114.1	114.28	12	grngry	f-mg	q				12
114.48	114.55	12	grngry	f-mg	q				12
239.25	239.37	12	blk	f-mg	j	WM			12
279.34	279.42	12	blk	f-mg	j	S			12
279.7	279.89	12	blk	f-mg	j	S			12
281.01	281.05	12	blk	f-mg	j	S			12
289.96	290.26	2c	ltgy-dkgy	f-mg	c	M			2c
290.58	290.74	12	blk	f-mg	j	S			12
291.82	292.12	2c	ltgy-dkgy	f-mg	c	M			2c
294.23	294.27	12	blk	f-mg	j	MS			12
322.73	322.83	12	blk	f-mg	j	MS			12
325.45	325.75	2cs	ltgy-dkgy	f-mg	c	WM			2cs
343.8	344.06	12	medgy-dkgy	f-mg	j	WM			12
344.72	345.05	2Bi	dkgy	f-mg	j	WM			2Bi
357.81	358	16	wht	f-mg	q				16
377.45	377.52	12	blk	f-mg	j	M			12
440.54	440.63	12	dkgy	f-mg					12
440.73	440.76	12	dkgy	f-mg					12
483.34	483.48	16	wht	f-mg	q				16
483.74	484	16	wht	f-mg	q				16
489.84	490.02	16	wht	f-mg	q				16
490.34	490.51	12	blk	f-mg	q	W			12
511.94	512.12	9f	ltgy-medgy	f-mg	f	MS			9f
541.57	541.78	12	medgy-dkgy	f-mg	j	W			12
542.61	542.83	9f	ltgy-medgy	f-mg	f	M			9f
546.1	546.34	9f	ltgy-medgy	f-mg	f	M			9f
546.55	546.6	12	medgy-dkgy	f-mg	j	WM			12
547.2	547.46	9f	medgy-dkgy	f-mg	f	M			9f
552	552.16	16	wht	f-mg	q	WM			16
559.49	559.68	9f	ltgy-medgy	f-mg	f	WM			9f
576.25	576.53	9f	medgy	f-mg	f	W			9f
577.1	577.21	9f	medgy	f-mg	f	WM			9f
577.52	577.58	9f	medgy	f-mg	f	WM			9f
578.09	578.37	4q	medgy	f-mg	j	WM			4q
578.9	579.06	4q	medgy	f-mg	j	W			4q
579.69	579.98	4q	medgy-dkgy	f-mg	j	WM			4q
597.69	597.9	4kt	brngy	f-mg	k	W			4kt
598.05	598.15	4kt	brngy	f-mg	k	W			4kt
626.1	626.4	16	wht	f-mg	q				16
645.28	645.44	4kt	grngry	f-mg	k	WM			4kt
645.52	645.71	4kt	grngry	f-mg	k	WM			4kt
651.62	651.84	15							15
659.18	659.38	4kt	medgy-dkgy	f-mg	k	WM			4kt
659.74	660	4kt	medgy-dkgy	f-mg	k	W			4kt

Hole ID: W1617 Project Code: WOC_Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: twilliams
Collar Depth: 2.0 m Hole Depth: 660 m
Collar Coordinates: 578142.2mE 5394734mN (UTM NAD83)
Azimuth: 180 degrees Dip: -56 degrees
Core Size: NQ
Drilling Start Date: Feb 2, 2016
Drilling End Date: Feb 16, 2016
Drilled by: Boreal Drilling

Interval (m)		Major Rock Name	Alteration 1	Intensity	Mode	Alteration 2	Intensity	Mode	Alteration 3	Intensity	Mode	AlterationComments
From	To											
2	22.83	4q	Bx	M	p	Cx	WM	k	Mx	WM	u	
22.83	41.07	4c	Cz	WM	p	Mx	WM	p	Cx	WM	ps	this core has a distinct colour difference than the previous alteration which was more grey-purple in colour. Actual mineral identification here is difficult.
41.07	46.27	4c	Bx	MS	p	Fx	M	p	Mx	WM	u	
46.27	50.96	4s	Bx	M	p	Fx	M	k	Mx	W	k	
50.96	62.83	4q	Cz	WM	p	Bx	WM	p	Cx	WM	ps	
62.83	64.07	12	Cz	WM	p	Ax	WM	p				
64.07	73.32	4q	Bx	M	p	Mx	M	u	Cx	M	k	
73.32	77.9	4Mu	Mx	M	p	Bx	WM	k	Cx	M	k	
77.9	78.57	12	Cz	WM	p	Ax	WM	p				
78.57	81.12	4Mu	Mx	M	p	Bx	WM	k	Cx	M	k	
81.12	92.2	4q	Bx	M	p	Cx	M	ps	Fx	WM	ps	
92.2	98.3	12	Cz	WM	p	Ax	WM	p				
98.3	98.7	4q	Bx	M	p	Mx	M	ps	Cx	WM	v	
98.7	99.8	12	Cz	WM	p	Ax	WM	p				
99.8	107.75	4q	Bx	M	p	Mx	WM	ps	Fx	WM	ps	
107.75	109.87	4kt	Bx	M	p	Mx	WM	k	Cx	WM	k	
109.87	110.63	4c	Bx	M	p	Cx	WM	k	Fx	WM	ps	
110.63	114.66	4kt	Bx	M	p	Mx	WM	k	Cx	WM	k	
114.66	115.74	12	Cz	WM	p	Ax	WM	p				
115.74	124.95	4c	Bx	M	p	Mx	WM	ps	Fx	WM	ps	
124.95	136.9	4kt	Bx	M	p	Mx	WM	k	Cx	WM	u	
136.9	139.57	4Mu	Mx	MS	p	Bx	M	u	Fx	WM	u	
139.57	141.06	4kt	Bx	M	p	Mx	WM	k	Cx	WM	u	
141.06	141.99	4c	Bx	M	p	Mx	WM	ps	Fx	WM	ps	
141.99	144.53	4q	Bx	M	p	Mx	M	ps	Cx	WM	v	
144.53	145.24	4c	Bx	M	p	Fx	M	k	Mx	WM	k	
145.24	149.1	4kt	Bx	M	p	Mx	M	k	Cx	WM	u	
149.1	151.71	4q	Bx	M	p	Mx	WM	k	Cx	WM	u	
151.71	152.55	4Mu	Mx	MS	p	Bx	WM	u	Fx	WM	u	
152.55	156.4	4q	Bx	MS	p	Mx	M	k	Cx	M	k	
156.4	156.8	12	Cz	WM	p	Ax	WM	p				
156.8	189.06	4q	Bx	MS	p	Mx	WM	k	Cx	M	k	
189.06	189.71	4Mu	Mx	MS	p	Bx	M	u	Fx	WM	u	
189.71	190.69	4q	Bx	MS	p	Mx	M	k	Cx	M	k	
190.69	203.28	4Mu	Mx	M	p	Bx	WM	u	Rd	W	u	
203.28	212.59	2Bi	Bx	MS	p	Mx	WM	u	Cx	W	v	
212.59	215.75	2c	Bx	M	p	Cx	M	m	Fx	WM	u	
215.75	227	2Bi	Bx	MS	p	Mx	WM	u	Cx	W	v	
227	229.81	2s	Fx	MS	p	Cx	M	p	Mx	WM	u	
229.81	231.84	2Bi	Bx	M	p	Cx	M	p	Mx	WM	u	
231.84	234.41	2c	Bx	M	p	Cx	M	m	Fx	WM	u	
234.41	234.76	12	Cz	WM	p	Ax	WM	p				
234.76	241.61	2c	Bx	M	p	Cx	M	m	Fx	WM	u	
241.61	285.82	2Bi	Bx	M	p	Cx	M	p	Mx	WM	u	
285.82	289.1	2c	Bx	M	p	Cx	M	m	Fx	WM	u	
289.1	292.25	2Bi	Bx	M	p	Cx	M	p	Mx	WM	u	
292.25	293.09	12	Cz	WM	p	Ax	WM	p				
293.09	293.69	2Mu	Mx	MS	p	Bx	WM	u	Fx	W	u	
293.69	294	12	Cz	WM	p	Ax	WM	p	Cx	M	v	
294	295.7	2c	Bx	M	p	Fx	M	p	Cx	M	u	
295.7	302.44	2Bi	Bx	W	p	Fx	W	u	Cx	W	m	
302.44	306.18	2cs	Fx	MS	p	Bx	WM	u	Cx	WM	m	
306.18	306.99	2Bi	Bx	W	p	Fx	W	u	Cx	W	m	
306.99	318	2s	Fx	MS	p	Cx	WM	m	Bx	WM	u	
318	320	2s	Fx	MS	p	Bx	WM	p	Cx	W	m	
320	320.8	2s	Fx	MS	p	Mx	WM	p	Cx	WM	m	
320.8	322.83	2s	Fx	MS	p	Bx	WM	u	Cx	WM	m	
322.83	323.5	2s	Fx	MS	p	Mx	WM	p	Cx	WM	m	
323.5	328.61	2s	Fx	MS	p	Bx	WM	ps	Cx	WM	m	
328.61	329.59	2s	Fx	MS	p	Mx	WM	p	Cx	WM	m	
329.59	330.23	2Bi	Bx	W	p	Fx	W	u	Cx	W	m	
330.23	331.08	2s	Fx	MS	p	Bx	WM	p	Cx	W	m	
331.08	333.91	2Bi	Bx	W	p	Fx	W	u	Cx	W	m	
333.91	336.11	2s	Fx	MS	p	Cx	WM	m	Bx	WM	u	
336.11	341.12	2Bi	Bx	M	p	Cx	M	p	Fx	WM	ps	
341.12	342.06	2c	Bx	M	p	Fx	M	p	Cx	M	u	
342.06	343.31	2s	Fx	MS	p	Bx	M	p	Cx	WM	k	
343.31	345.05	3fs	Fx	MS	p	Sx	WM	p	Cx	W	m	
345.05	348.47	12	Cz	WM	p	Ax	WM	p				
348.47	358.63	2c	Bx	M	p	Fx	M	p	Cx	M	v	
358.63	365.88	2Bi	Bx	WM	p	Cx	M	k	Fx	W	u	
365.88	367.08	2Mu	Mx	MS	p	Bx	W	u	Fx	W	u	
367.08	372.61	2Bi	Bx	WM	p	Cx	M	k	Fx	W	u	
372.61	376.37	3fs	Fx	MS	p	Sx	WM	p	Cx	W	m	

DDH W1617 Alteration Log

Hole ID: W1617 Project Code: WOC_Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: twilliams
Collar Depth: 2.0 m Hole Depth: 660 m
Collar Coordinates: 578142.2mE 5394734mN (UTM NAD83)
Azimuth: 180 degrees Dip: -56 degrees
Core Size: NQ
Drilling Start Date: Feb 2, 2016
Drilling End Date: Feb 16, 2016
Drilled by: Boreal Drilling

Interval (m)		Major Rock Name	Alteration 1	Intensity	Mode	Alteration 2	Intensity	Mode	Alteration 3	Intensity	Mode	AlterationComments
From	To											
376.37	390.14	3fs	Fx	MS	p	Cx	M	u	Mx	WM	u	
390.14	402.16	3Bi	Fx	MS	p	Bx	WM	p	Mx	WM	u	
402.16	405.06	3c	Fx	MS	p	Bx	WM	p	Cx	WM	k	
405.06	406	3sMu	Fx	M	p	Mx	MS	p	Bx	WM	p	
406	410.49	3Bi	Fx	MS	p	Bx	WM	p	Mx	WM	u	
410.49	420.62	3c	Fx	MS	p	Bx	WM	p	Cx	WM	k	
420.62	421.82	3Bi	Fx	MS	p	Mx	WM	k	Bx	WM	k	
421.82	425.43	3c	Fx	MS	p	Bx	WM	p	Cx	WM	k	
425.43	426.41	3fs	Fx	MS	p	Bx	W	u	Cx	WM	m	
426.41	427.08	3c	Fx	MS	p	Bx	WM	p	Cx	WM	k	
427.08	427.71	16	Sx	SI	p	Bx	W	u	Cx	W	u	
427.71	430.86	3c	Fx	MS	p	Bx	WM	p	Cx	WM	k	
430.86	444.56	3fs	Fx	MS	p	Bx	W	u	Cx	WM	m	
444.56	446.52	3f	Fx	W	ps	Bx	W	u	Cx	W	m	
446.52	447	3c	Fx	MS	p	Bx	WM	p	Cx	WM	k	
447	449.47	3Bi	Fx	MS	p	Mx	WM	k	Bx	WM	k	
449.47	451.16	3fs	Fx	W	ps	Bx	W	u	Cx	W	m	
451.16	454.62	3c	Fx	MS	p	Bx	WM	p	Cx	WM	k	
454.62	456.67	2Bi	Bx	M	p	Cx	WM	p	Fx	W	u	
456.67	457.05	2c	Bx	M	p	Fx	M	p	Cx	M	v	
457.05	461.74	2Bi	Bx	M	p	Cx	WM	p	Fx	W	u	
461.74	472.25	2s	Fx	M	p	Bx	W	p	Cx	WM	m	
472.25	480.37	2Bi	Bx	M	p	Cx	WM	p	Fx	W	u	
480.37	480.75	12	Cz	WM	p	Ax	WM	p				
480.75	482.43	2Bi	Bx	M	p	Cx	WM	p	Fx	W	u	
482.43	484	2Mu	Mx	MS	p	Fx	WM	u	Bx	W	u	
484	488	2Bi	Bx	M	p	Fx	WM	u	Mx	WM	u	
488	495.18	3sMu	Mx	MS	p	Fx	WM	u	Bx	W	u	
495.18	498.23	3Bi	Bx	M	p	Fx	WM	u	Mx	WM	u	
498.23	516.75	3sMu	Mx	MS	p	Fx	WM	u	Bx	W	u	
516.75	526.12	3Bi	Bx	MS	p	Fx	WM	p	Mx	WM	u	
526.12	527.07	9f	Fx	W	p	Bx	WM	u	Mx	WM	u	
527.07	529	3fs	Fx	MS	p	Bx	M	p	Mx	WM	u	
529	533.8	3sMu	Mx	MS	p	Fx	WM	u	Bx	W	u	
534.32	536.19	3fs	Fx	MS	p	Bx	MS	p	Mx	WM	u	
536.19	539.49	3sMu	Mx	MS	p	Fx	WM	u	Bx	W	u	
539.49	543.25	3fs	Fx	MS	p	Bx	MS	p	Mx	WM	u	
543.25	545.94	3sMu	Mx	MS	p	Fx	WM	u	Bx	W	u	
545.94	549.56	3Bi	Bx	MS	p	Fx	WM	p	Mx	WM	u	
549.56	550.19	16	Cx	S	p	Bx	WM	k	Mx	WM	u	
550.19	550.71	9f	Bx	MS	p	Fx	WM	u	Cx	WM	u	
550.71	561.29	3Bi	Bx	MS	p	Mx	WM	p	Fx	WM	u	
561.29	562.28	9f	Fx	W	p	Bx	WM	u	Mx	WM	u	
562.28	563.39	12	Cz	WM	p	Ax	WM	p				
563.39	576.11	4Mu	Mx	MS	p	Bx	M	u	Fx	WM	u	
576.11	577.72	4q	Bx	MS	p	Mx	M	k	Cx	M	k	
577.72	580.18	9f	Fx	W	p	Bx	WM	u	Mx	WM	u	
580.18	581.61	4q	Bx	MS	p	Mx	M	k	Cx	M	k	
581.61	582.43	9f	Fx	W	p	Bx	WM	u	Mx	WM	u	
582.43	584.71	4q	Bx	MS	p	Mx	M	k	Cx	M	k	
584.71	585.3	9f	Fx	W	p	Bx	WM	u	Mx	WM	u	
585.3	587.38	4k	Bx	M	p	Mx	WM	u	Cx	WM	k	
587.38	588.04	9f	Fx	W	p	Bx	WM	u	Mx	WM	u	
588.04	595.74	4kt	Bx	MS	p	Mx	M	k	Cx	M	k	
595.74	596.92	9f	Fx	W	p	Bx	WM	u	Mx	WM	u	
596.92	597.49	4kt	Bx	MS	p	Mx	M	k	Cx	M	k	
597.49	599.33	9f	Fx	W	p	Bx	WM	u	Mx	WM	u	
599.33	605.2	4kt	Bx	MS	p	Mx	M	k	Cx	M	k	
605.2	606.5	4Mu	Mx	MS	p	Bx	M	u	Fx	WM	u	
606.5	611.97	4kt	Bx	MS	p	Mx	M	k	Cx	M	k	
611.97	615	4q	Bx	M	p	Mx	W	u	Fx	WM	ps	
615	618.65	12	Cz	WM	p	Ax	WM	p				
618.65	628.84	4q	Bx	M	p	Mx	W	u	Fx	WM	ps	
628.84	629.15	12	Cz	WM	p	Ax	WM	p				
629.15	632.1	4q	Bx	M	p	Mx	W	u	Fx	WM	ps	
632.1	637.62	4kt	Bx	MS	p	Mx	M	k	Cz	WM	k	
637.62	649.88	4Mu	Mx	MS	p	Bx	M	u	Fx	WM	u	
649.88	650.43	4kt	Bx	MS	p	Mx	M	k	Cz	WM	k	
650.43	652.54	4Mu	Mx	MS	p	Fx	WM	p	Bx	W	u	
652.54	654.2	9Mu	Bx	MS	p	Mx	W	p	Fx	W	p	
654.2	656.25	4Mu	Mx	MS	p	Bx	WM	u	Fx	WM	u	
656.25	660	9Mu	Bx	MS	p	Mx	WM	p	Fx	W	p	

DDH W1617 Mineralization Log

Hole ID: W1617 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: twilliams
Collar Depth: 2.0 m Hole Depth: 660 m
Collar Coordinates: 578142.2mE 5394734mN (UTM NAD83)
Azimuth: 180 degrees Dip: -56 degrees
Core Size: NQ
Drilling Start Date: Feb 2, 2016
Drilling End Date: Feb 16, 2016
Drilled by: Boreal Drilling

Interval (m)		Ore Mineral 1	Mineralization Mode	Mineralization Percentage	Ore Mineral 2	Mineralization Percentage	Major Surrounding Rock Type	Comments
From	To							
2	41.07	Py	d	0.1			4q	
41.07	46.27	Py	d	0.1			4c	
46.27	50.96	Py	d	0.05			4s	
50.96	62.83	Py	d	0.01			4q	
62.83	64.07	Py	d	0.01			12	
64.07	73.32	Py	d	0.01			4q	
73.32	77.9	Py	d	0.01			4Mu	
77.9	78.57	Py	d	0.01			12	
78.57	81.12	Py	d	0.01			4Mu	
81.12	92.2	Py	d	0.05			4q	
92.2	98.3	Py	d	0.01			12	
98.3	98.7	Py	d	0.01			4q	
98.7	99.8	Py	d	0.01			12	
99.8	107.75	Py	d	0.01			4q	
107.75	109.87	Py	d	0.05			4kt	
109.87	110.63	Py	d	0.05			4c	
110.63	114.66	Py	d	0.1			4kt	
114.66	115.74	Py		0.01			12	
115.74	124.95	Py	d	0.05			4c	
124.95	136.9	Py	d	0.01			4kt	
136.9	139.57	Py	d	0.01			4Mu	
139.57	141.06	Py	d	0.01			4kt	
141.06	141.99	Py	d	0.01			4c	
141.99	144.53	Py	d	0.01			4q	
144.53	145.24	Py	d	0.01			4c	
145.24	149.1	Py	d	0.01			4kt	
149.1	151.71	Py	d	0.01			4q	
151.71	152.55	Py	d	0.01			4Mu	
152.55	156.4	Py	d	0.01			4q	
156.4	156.8	Py	d	0.01			12	
156.8	189.06	Py	d	0.01			4q	
189.06	189.71	Py	d	0.01			4Mu	
189.71	190.69	Py	d	0.01			4q	
190.69	203.28	Py	d	0.01			4Mu	
203.28	212.59	Py	d	0.05			2Bi	
212.59	215.75	Py		0.075			2c	
215.75	227	Py	d	0.1			2Bi	
227	229.81	Py	d	0.05			2s	
229.81	231.84	Py	d	0.1			2Bi	
231.84	234.41	Py	d	0.1			2c	
234.41	234.76	Py	d	0.01			12	
234.76	241.61	Py	d	0.1			2c	
241.61	285.82	Py	d	0.1			2Bi	
285.82	289.1	Py	d	0.1			2c	
289.1	292.25	Py	d	0.1			2Bi	
292.25	293.09	Py	d	0.1			12	
293.09	293.69	Py	d	0.01			2Mu	

DDH W1617 Mineralization Log

Hole ID: W1617 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: twilliams
Collar Depth: 2.0 m Hole Depth: 660 m
Collar Coordinates: 578142.2mE 5394734mN (UTM NAD83)
Azimuth: 180 degrees Dip: -56 degrees
Core Size: NQ
Drilling Start Date: Feb 2, 2016
Drilling End Date: Feb 16, 2016
Drilled by: Boreal Drilling

Interval (m)		Ore Mineral 1	Mineralization Mode	Mineralization Percentage	Ore Mineral 2	Mineralization Percentage	Major Surrounding Rock Type	Comments
From	To							
293.69	294	Py	d	0.1			12	
294	295.7	Py	d	0.1			2c	
295.7	302.44	Py	d	0.05			2Bi	
302.44	306.18	Py	d	0.1			2cs	
306.18	306.99	Py	d	0.05			2Bi	
306.99	328.61	Py	d	0.1	Mo	0.01	2s	
328.86	329.59	Py	d	0.2			2s	
329.59	330.23	Py	d	1			2Bi	
330.23	331.08	Py	d	1			2s	
331.08	333.91	Py	d	1			2Bi	
333.91	336.11	Py	d	0.1			2s	
336.11	341.12	Py	d	1			2Bi	
341.12	342.06	Py	d	0.05			2c	
342.06	343.31	Py	k	1			2s	
343.31	345.05	Py	d	0.05			3fs	
345.05	348.47	Py	d	0.1			12	
348.47	358.63	Py	d	0.05			2c	
358.63	365.88	Py	d	0.1			2Bi	
365.88	367.08	Py	d	0.01			2Mu	
367.08	372.61	Py	d	1			2Bi	
372.61	390.14	Py	d	0.1			3fs	
390.14	402.16	Py	d	1			3Bi	
402.16	405.06	Py	d	1			3c	
405.06	406	Py	d	0.05			3sMu	
406	410.49	Py	d	0.05			3Bi	
410.49	420.62	Py	d	1			3c	
420.62	421.82	Py	d	1			3Bi	
421.82	425.43	Py	d	1	Mo	0.3	3c	
425.43	426.41	Py	d	1			3fs	
426.41	427.08	Py	d	1			3c	
427.08	427.71	Py	p	1	Mo	0.2	16	
427.71	430.86	Py	d	1			3c	
430.86	444.56	Py	d	1	Mo	0.4	3fs	
444.56	446.52	Py	d	1	Mo	0.1	3f	
446.52	447	Py	d	1			3c	
447	449.47	Py	d	1			3Bi	
449.47	451.16	Py	d	1	Mo	0.1	3fs	
451.16	454.62	Py	d	1			3c	
454.62	456.67	Py	d	0.5			2Bi	
456.67	457.05	Py	k	1			2c	
457.05	461.74	Py	p	0.5			2Bi	
461.74	472.25	Py	d	0.5	Mo	0.7	2s	
472.25	480.37	Py	d	0.5			2Bi	
480.37	480.75	Py	d	0.5			12	
480.75	482.43	Py	d	0.5			2Bi	
482.43	484	Py	d	1			2Mu	
484	488	Py	d	1			2Bi	

DDH W1617 Mineralization Log

Hole ID: W1617 Project Code: WOC Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: twilliams
 Collar Depth: 2.0 m Hole Depth: 660 m
 Collar Coordinates: 578142.2mE 5394734mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -56 degrees
 Core Size: NQ
 Drilling Start Date: Feb 2, 2016
 Drilling End Date: Feb 16, 2016
 Drilled by: Boreal Drilling

Interval (m)		Ore Mineral 1	Mineralization Mode	Mineralization Percentage	Ore Mineral 2	Mineralization Percentage	Major Surrounding Rock Type	Comments
From	To							
488	495.18	Py		1			3sMu	
495.18	498.23	Py	d	1			3Bi	
498.23	516.75	Py	d	1			3sMu	
516.75	526.12	Py		1.5			3Bi	
526.12	527.07	Py		0.05			9f	
527.07	529	Py	d	1.5			3fs	
529	533.8	Py	k	1			3sMu	
533.8	534.32	Py	a	0.1			16	
534.32	536.19	Py	d	1.5			3fs	
536.19	539.49	Py	d	0.75			3sMu	
539.49	543.25	Py	k	1			3fs	
543.25	545.94	Py	k	0.5			3sMu	
545.94	549.56	Py	d	0.75			3Bi	
549.56	550.19	Py	d	0.05			16	
550.19	550.71	Py	d	0.01			9f	
550.71	561.29	Py	d	0.05			3Bi	
561.29	562.28	Py	d	0.01			9f	
562.28	563.39	Py		0.01			12	
563.39	576.11	Py	d	0.1			4Mu	
576.11	577.72	Py		0.01			4q	
577.72	580.18	Py	d	0.01			9f	
580.18	581.61	Py	d	0.01			4q	
581.61	582.43	Py	d	0.05			9f	
582.43	584.71	Py	d	0.01			4q	
584.71	585.3	Py	d	0.01			9f	
585.3	587.38	Py	d	0.01			4k	
587.38	588.04	Py	d	0.01			9f	
588.04	595.74	Py	d	0.01			4kt	
595.74	596.92	Py	d	0.1			9f	
596.92	597.49	Py	d	0.01			4kt	
597.49	599.33	Py	d	0.01			4Mu	
599.33	605.2	Py	d	0.01			4kt	
605.2	606.5	Py	d	0.01			4q	
606.5	611.97	Py	d	0.1			12	
611.97	615	Py	k	0.75			4q	
615	618.65	Py	d	0.01			12	
618.65	628.84	Py	d	0.75	Po	0.5	4q	
628.84	629.15	Py	d	0.01			4kt	
629.15	632.1	Py	d	0.75	Po	0.5	4Mu	
632.1	637.62	Py	d	0.3	Po	0.3	4kt	
637.62	649.88	Py	d	0.75			4Mu	
649.88	650.43	Py	d	0.05	Po	0.05	4kt	
650.43	652.54	Py	d	0.01			4Mu	
652.54	660	Py	d	0.01			4Mu	

DDH W1617 Structural Log

Hole ID: W Project Code: WOC Pit

Mining Land Number: Lease Claim 274

Planned by Logged By: twilliams

Collar Dept Hole Depth: 660 m

Collar Coordinates: 578142.2mE 5394734mN (UTM NA)

Azimuth: 1 Dip: -56 degrees

Core Size: NQ

Drilling Start Date: Feb 2, 2016

Drilling End Date: Feb 16, 2016

Drilled by: Boreal Drilling

Depth	Major Surrounding Rock Type	Structure Type	Structure Subtype	Structure Infill	Alpha Angle	Gange Mineral	Roughness	Thickness (mm)	Structure Comments
47.14	4s	FT	gou	S3	55		Smooth		
62.83	12	CT		N	30		Smooth		
64.07	12	CT		N	30		Smooth		
80.8	4mu	FT	gou	S2	60		Smooth		
98.3	12	CT		N	25		Smooth		
114.66	12	CT		N	25		Smooth		
119.8	4kt	CT		N	30		Smooth		
123.73	4c	FT	gou	S2	60		Smooth		
138.9	4mu	FT	fau	S3	60		Smooth		
155.53	4q	FT	gou	S2	60		Smooth		
222.1	2ci	FT	fau	S3	65		Smooth		
222.24	2bi	FT	fau	S2	65		Smooth		
239.25	2c	CT		N	55		Smooth		
239.37	2c	CT		N	55		Smooth		
251.17	2bi	FT	fau	S3	65		Smooth		
268.9	2bi	FT	fau	H2	45		Smooth		
284.71	2bi	FT	gou	S2	65		Smooth		
288.66	2c	FT	gou	S2	70		Smooth		
317.26	2s	FT	fau	S3	60		Smooth		
321	2s	FT	fau	S3	60		Smooth		
322.83	2s	FT		S2	50		Smooth		
331.73	2bi	FT	fau	S3	40		Smooth		
345.05	3fs	CT		S2	40		Smooth		
348.47	12	CT		S2	25		Smooth		
350.6	2c	FT	shz	S2	70		Smooth		
371.9	2bi	FT	shz	S3	50		Smooth		
377.45	3fs	CT		S2	50		Smooth		
377.52	3fs	CT		S2	50		Smooth		
396.23	3bi	FT	gou	S2	60		Smooth		
396.77	3bi	FT	gou	S2	70		Smooth		
396.93	3bi	FT	gou	S2	70		Smooth		
397.25	3bi	FT	gou	S2	70		Smooth		
397.47	3bi	FT	gou	S2	70		Smooth		
437.83	3fs	FT	fau	S3	65		Smooth		
618.65	4q	CT		N	70		Smooth		

Appendix C

DDH W1620 Drill Logs

DDH W1620 Major Lithology Log

Hole ID: W1620 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: iquinn
Collar Depth: 2.4 m Hole Depth: 501 m
Collar Coordinates: 577887.9mE 5394762mN (UTM NAD83)
Azimuth: 180 degrees Dip: -45 degrees
Core Size: NQ
Drilling Start Date: Feb 17, 2016
Drilling End Date: Feb 21, 2016
Drilled by: Boreal Drilling

LoggedDate	Interval (m)		Major Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Texture 3	Intensity	Mineralization	Percentage Mineralization
	From	To											
23-Feb-16	0	2.4	0										
23-Feb-16	2.4	7.5	4q	medgy	v-fg	j	WM	k	W	c	W		
23-Feb-16	7.5	9.75	4s	ltgy-medgy	v-fg	k	WM	j	W				
23-Feb-16	9.75	14.96	4q	medgy	fg	j	WM	t	W				
23-Feb-16	14.96	16.77	4s	ltgy-medgy	v-fg	k	WM	j	W				
23-Feb-16	16.77	17.22	12	dkgy	fg	n	M						
23-Feb-16	17.22	18.85	4s	medgy	v-fg	k	WM	j	W				
23-Feb-16	18.85	20.91	4Mu	ltgy-medgy	v-fg	k	M	j	W				
23-Feb-16	20.91	26.8	4c	medgy	v-mg	c	WM	k	WM	j	W		
23-Feb-16	26.8	35.83	4c	ltgy-medgy	v-mg	k	WM	j	WM	c	W		
23-Feb-16	35.83	42.97	4c	medgy	v-mg	c	WM	k	WM	j	W		
23-Feb-16	42.97	46	4q	medgy	vfg	j	WM	k	W				
23-Feb-16	46	47	4FT	medgy	fg	j	W	q					
23-Feb-16	47	57.09	4q	medgy	vfg	j	WM	k	W				
23-Feb-16	57.09	60.96	4c	medgy	v-mg	c	WM	j	WM				
23-Feb-16	60.96	64.7	4q	medgy	vfg	j	WM	k	W				
23-Feb-16	64.7	72.82	4c	grngry	v-mg	k	WM	c	W				
23-Feb-16	72.82	76.64	4Mu	ltgy-medgy	v-fg	k	M	j	W				
24-Feb-16	76.64	98.21	4q	medgy	v-fg	j	WM	k	W				
24-Feb-16	98.21	100.08	4Mu	ltgy	v-fg	k	MS	t	WM	j	W		
24-Feb-16	100.08	106.44	4kt	medgy	v-fg	k	MS	t	WM	j	W		
24-Feb-16	106.44	108.09	4q	medgy	v-fg	j	WM	k	W				
24-Feb-16	108.09	109.36	4kt	medgy	v-fg	k	MS	t	WM	j	W		
24-Feb-16	109.36	114.67	4q	medgy	v-fg	j	WM	k	W				
24-Feb-16	114.67	116.82	4kt	medgy	v-fg	k	MS	t	WM	j	W		
24-Feb-16	116.82	129.92	4q	ltgy-medgy	v-fg	j	WM	k	W				
24-Feb-16	129.92	133.9	4kt	medgy	v-fg	k	M	t	WM	j	W		
24-Feb-16	133.9	138.93	4c	ltgy-medgy	v-mg	c	M	k	WM	j	WM		
24-Feb-16	138.93	155.62	4q	ltgy-medgy	v-fg	j	WM	k	W				
24-Feb-16	155.62	182.35	4c	ltgy-medgy	v-mg	c	M	k	WM	j	WM		
25-Feb-16	182.35	197.18	4q	ltgy-medgy	v-fg	k	WM	j	W				
25-Feb-16	197.18	208.64	4kt	ltgy-medgy	v-fg	k	M	t	WM	j	W		
25-Feb-16	208.64	215.73	4q	ltgy-medgy	v-fg	k	WM	j	W				
25-Feb-16	215.73	216.11	12	dkgy	fg	n							
25-Feb-16	216.11	222.52	4q	ltgy-medgy	v-fg	k	WM	j	W				
25-Feb-16	222.52	224.3	4kt	ltgy-medgy	v-fg	k	M	t	WM	j	W		
25-Feb-16	224.3	234.53	2c	blugy	v-mg	c	M	k	WM	j	W		
25-Feb-16	234.53	235.9	2Bi	medgy	v-fg	k	W	t	W				
25-Feb-16	235.9	240.55	2c	ltgy-medgy	v-mg	c	M	k	WM	j	W		
25-Feb-16	240.55	241.92	11	medgy	fg	k	WM						
25-Feb-16	241.92	243.33	2c	ltgy-medgy	v-mg	c	M	k	WM	j	W		
25-Feb-16	243.33	243.67	11	medgy	fg	k	W						
25-Feb-16	243.67	247.1	2c	blugy	v-mg	c	M	k	WM	j	W		
25-Feb-16	247.1	248.75	11	medgy	fg	q							
25-Feb-16	248.75	249.08	2c	blugy	v-mg	c	M	k	WM	j	W		
25-Feb-16	249.08	249.54	11	medgy	fg	q							
25-Feb-16	249.54	256.53	2c	ltgy-medgy	v-mg	c	M	k	WM	j	W		
25-Feb-16	256.53	259.88	2Bi	medgy	v-fg	k	W	c	W				
25-Feb-16	259.88	269.9	2c	ltgy-medgy	v-mg	c	M	k	WM	j	W		
25-Feb-16	269.9	271.7	2Bi	medgy	v-fg	k	W						
25-Feb-16	271.7	272.32	12	medgy-dkgy	v-fg	n	WM	j	W				
25-Feb-16	272.32	276.24	2cs	ltgy-medgy	v-mg	c	M	j	W				
26-Feb-16	276.24	278.6	2s	ltgy	v-fg	k	WM						
25-Feb-16	278.6	282.91	2cs	ltgy-medgy	v-mg	c	M	j	W				
26-Feb-16	282.91	285.02	12	dkgy	fg	n	M						
26-Feb-16	285.02	285.53	2c	medgy	v-mg	c	WM	j	W				
26-Feb-16	285.53	287.04	12	dkgy	fg	n	M						
25-Feb-16	287.04	289.7	2Bi	medgy	v-fg	k	W	c	W				
26-Feb-16	289.7	291.16	12	dkgy	fg	n	WM						
25-Feb-16	291.16	295.39	2Bi	medgy	v-fg	k	W	c	W				

DDH W1620 Major Lithology Log

Hole ID: W1620 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: iquinn
Collar Depth: 2.4 m Hole Depth: 501 m
Collar Coordinates: 577887.9mE 5394762mN (UTM NAD83)
Azimuth: 180 degrees Dip: -45 degrees
Core Size: NQ
Drilling Start Date: Feb 17, 2016
Drilling End Date: Feb 21, 2016
Drilled by: Boreal Drilling

LoggedDate	Interval (m)		Major Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Texture 3	Intensity	Mineralization	Percentage Mineralization
	From	To											
25-Feb-16	295.39	307.07	2c	ltgy-medgy	v-mg	c	M	k	WM	j	W		
25-Feb-16	307.07	313.02	2Bi	medgy	v-fg	k	W	c	W	t	W		
26-Feb-16	313.02	317.48	12	dkgy	fg	t	W						
25-Feb-16	317.48	324.21	2c	ltgy-medgy	v-mg	c	M	k	WM	j	W		
26-Feb-16	324.21	325.76	12	dkgy	fg	n	WM						
25-Feb-16	325.76	329.93	2Bi	medgy	v-fg	k	W	c	W				
25-Feb-16	329.93	332.7	2c	ltgy-medgy	v-mg	c	M	k	WM	j	W		
26-Feb-16	332.7	334.31	12	dkgy	fg	n	W						
25-Feb-16	334.31	343.35	2c	ltgy-medgy	v-mg	c	M	k	WM	j	W		
25-Feb-16	343.35	347.82	2Bi	medgy	v-fg	k	W	c	W				
25-Feb-16	347.82	349.95	2c	ltgy-medgy	v-mg	c	M	k	WM	j	W		
26-Feb-16	349.95	351.54	2FT	ltgy-medgy	fg	o	M	n	WM				
26-Feb-16	351.54	359.71	2cs	ltgy	v-mg	c	M	k	WM	j	WM		
26-Feb-16	359.71	364.83	3f	ltgy-medgy	v-mg	f	M	j	W				
26-Feb-16	364.83	366.74	3c	ltgy-medgy	v-mg	c	M	f	WM	j	W		
26-Feb-16	366.74	368.73	3f	ltgy-medgy	v-mg	f	M	j	W				
26-Feb-16	368.73	369.58	11	medgy	fg	n	WM						
1-Mar-16	369.58	370.65	3f	ltgy-medgy	v-mg	f	M	j	W				
1-Mar-16	370.65	376.07	2Bi	medgy	v-fg	j	WM	k	W	f	W		
1-Mar-16	376.07	390.39	3f	ltgy-medgy	v-mg	f	M	k	WM	j	W		
1-Mar-16	390.39	391.91	3Bi	medgy	fg	f	W	k	W				
1-Mar-16	391.91	403.43	3f	ltgy-medgy	v-mg	f	M	k	WM	j	W		
1-Mar-16	403.43	405.49	12	dkgy	fg	n	M	f	W				
1-Mar-16	405.49	411.05	3fs	ltgy	v-mg	f	M	j	W				
1-Mar-16	411.05	412.55	12	dkgy	fg	n	M	o	WM				
1-Mar-16	412.55	419.77	3fs	ltgy	v-mg	f	M	j	W	k	W		
1-Mar-16	419.77	420.47	3sMo	blugy	v-mg	f	WM	n	W				
1-Mar-16	420.47	425.32	3fs	ltgy	v-mg	f	M	j	W	k	W		
1-Mar-16	425.32	426.06	3sMo	blugy	v-mg	f	WM	n	W				
1-Mar-16	426.06	431.17	3fs	ltgy	v-mg	f	M	j	W	k	W		
1-Mar-16	431.17	431.84	4s	blugy	v-fg	k	M	f	W				
1-Mar-16	431.84	432.56	3fs	ltgy	v-mg	f	M	j	W	k	W		
1-Mar-16	432.56	435.25	4s	blugy	v-fg	k	M	f	W				
1-Mar-16	435.25	436.17	12	dkgy	fg	n	M						
1-Mar-16	436.17	444.6	4s	medgy	v-fg	k	M						
2-Mar-16	444.6	448.95	4c	medgy	v-mg	c	WM	j	W	t	W		
2-Mar-16	448.95	457.25	4kt	ltgy-medgy	v-fg	k	M	t	WM	c	W		
2-Mar-16	457.25	462.72	4c	medgy	v-mg	c	WM	j	W	t	W		
2-Mar-16	462.72	474.56	4q	medgy	v-fg	k	WM	t	W	c	W		
2-Mar-16	474.56	481.2	4c	medgy	v-mg	c	WM	j	W	t	W		
2-Mar-16	481.2	485.42	4kt	ltgy-medgy	v-fg	k	M	t	WM	c	W		
2-Mar-16	485.42	489.07	4c	medgy	v-mg	c	WM	j	W	t	W		
2-Mar-16	489.07	495.1	4Mu	ltgy-medgy	v-fg	k	M	t	W	c	W		
2-Mar-16	495.1	501	4c	medgy	v-mg	c	WM	t	WM	j	W		

DDH W1620 Minor Lithology Log

Hole ID: W1620 Project Code: WOC Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: jquinn
 Collar Depth: 2.4 m Hole Depth: 501 m
 Collar Coordinates: 577887.9mE 5394762mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -45 degrees
 Core Size: NQ
 Drilling Start Date: Feb 17, 2016
 Drilling End Date: Feb 21, 2016
 Drilled by: Boreal Drilling

Interval (m)		Minor Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Major Surrounding Rock Type
From	To								
17.79	18	16	wht	vfg	q				4s
50.7	50.8	9f	medgy	mg	f	M			4q
86.25	86.42	4c	ltgy	v-mg	c	MS	j	w	4q
175.44	175.58	16	wht	vfg	q				4c
202.86	202.95	16	wht	vfg	n				4kt
206.26	206.41	16	wht	vfg	n				4kt
259.63	259.82	16	wht	vfg	q				2Bi
271.91	272.02	16	wht	vfg	q				12
349.95	350.13	12	dkgy	fg	n				2c
351.25	351.54	12	dkgy	fg	n				2c
367.93	368.11	12	dkgy	fg	n	M			3f
370.68	370.83	12	dkgy	fg	n	M			2Bi
377.84	377.98	12	dkgy	fg	n	M			3f
379.41	379.56	12	dkgy	f-mg	o	M	n	wm	3f
382.11	382.24	12	dkgy	fg	n	M			3f
442.93	443.04	16	wht	vfg	q				4s

DDH W1620 Alteration Log

Hole ID: W1620 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: iquinn
Collar Depth: 2.4 m Hole Depth: 501 m
Collar Coordinates: 577887.9mE 5394762mN (UTM NAD83)
Azimuth: 180 degrees Dip: -45 degrees
Core Size: NQ
Drilling Start Date: Feb 17, 2016
Drilling End Date: Feb 21, 2016
Drilled by: Boreal Drilling

Interval (m)		Major Rock Name	Alteration 1	Intensity	Mode	Alteration 2	Intensity	Mode	Alteration 3	Intensity	Mode	AlterationComments
From	To											
2.4	7.5	4q	Bx	WM	p	Fx	WM	p	Cx	W	ps	
7.5	9.75	4s	Fx	MS	p	Bx	WM	ps	Sx	W	v	
9.75	14.96	4q	Bx	M	p	Fx	WM	ps	Cx	W	k	
14.96	16.77	4s	Fx	MS	p	Bx	WM	ps	Sx	W	v	
16.77	17.22	12	Cx	M	k							
17.22	18.85	4s	Fx	MS	p	Bx	WM	ps	Sx	WM	v	
18.85	20.91	4Mu	Bx	M	k	Mx	WM	k	Ex	W	v	
20.91	26.8	4c	Bx	M	ps	Fx	WM	ps	Sx	W	v	
26.8	35.83	4c	Bx	M	p	Fx	WM	ps	Mx	W	k	
35.83	42.97	4c	Bx	M	ps	Fx	WM	ps	Sx	W	v	
42.97	46	4q	Bx	M	p	Fx	WM	ps	Rd	W	ps	
46	47	4FT	Bx	M	p	Rd	WM	ps	Ax	W	ps	
47	57.09	4q	Bx	M	p	Fx	WM	ps	Rd	W	ps	
57.09	60.96	4c	Bx	M	p	Fx	W	ps				
60.96	64.7	4q	Bx	M	p	Fx	WM	ps	Ex	W	v	
64.7	72.82	4c	Bx	M	p	Ex	WM	k	Mx	WM	k	
72.82	76.64	4Mu	Bx	M	p	Mx	WM	k	Cx	W	k	
76.64	98.21	4q	Bx	M	ps	Fx	WM	ps	Sx	W	v	
98.21	100.08	4Mu	Mx	MS	ps	Bx	WM	k	Cx	WM	k	
100.08	106.44	4kt	Bx	M	k	Mx	WM	k	Cx	W	k	
106.44	108.09	4q	Bx	M	p	Mx	WM	ps	Sx	W	v	
108.09	109.36	4kt	Bx	M	k	Mx	WM	k	Ax	WM	k	
109.36	114.67	4q	Bx	M	p	Mx	WM	ps	Sx	W	v	
114.67	116.82	4kt	Bx	M	k	Mx	WM	k	Ax	WM	k	
116.82	129.92	4q	Mx	M	ps	Bx	WM	ps	Sx	W	v	
129.92	133.9	4kt	Bx	M	k	Ax	WM	k	Cx	WM	k	
133.9	138.93	4c	Bx	WM	p	Fx	WM	ps	Sx	W	v	
138.93	155.62	4q	Bx	M	ps	Mx	WM	ps	Sx	W	v	
155.62	160	4c	Bx	M	p	Mx	WM	ps	Fx	W	ps	
160	165	4c	Bx	M	p	Fx	WM	ps	Mx	W	ps	
165	172	4c	Bx	M	p	Mx	WM	ps	Fx	W	ps	
172	175	4c	Bx	WM	p	Fx	WM	ps	Rd	W	v	
175	182.35	4c	Bx	M	ps	Mx	WM	ps	Sx	W	v	
182.35	186	4q	Bx	M	p	Cx	WM	k	Fx	W	ps	
186	191	4q	Bx	WM	k	Mx	WM	k	Ex	W	k	
191	197.18	4q	Bx	M	p	Cx	WM	k	Sx	W	v	
197.18	208.64	4kt	Bx	M	k	Cx	WM	k	Sx	WM	v	
208.64	215.73	4q	Bx	M	ps	Cx	WM	ps	Sx	W	v	
215.73	216.11	12	Sx	WM	v							
216.11	222.52	4q	Bx	M	ps	Cx	WM	ps	Sx	W	v	
222.52	224.3	4kt	Bx	M	k	Cx	WM	k	Fx	W	ps	
224.3	234.53	2c	Bx	WM	ps	Fx	WM	ps	Sx	W	v	
234.53	235.9	2Bi	Bx	M	p	Cx	WM	ps	Fx	W	ps	
235.9	240.55	2c	Fx	M	p	Cx	WM	ps	Bx	WM	k	
240.55	241.92	11	Cx	M	p	Bx	WM	k				
241.92	243.33	2c	Cx	WM	p	Bx	WM	ps	Fx	W	ps	
243.33	243.67	11	Cx	M	p	Bx	WM	k				
243.67	247.1	2c	Bx	WM	ps	Bx	WM	p	Sx	W	v	
247.1	248.75	11	Cx	M	p							
248.75	249.08	2c	Cx	M	p	Bx	WM	ps	Fx	W	ps	
249.08	249.54	11	Cx	M	p							
249.54	256.53	2c	Bx	M	ps	Fx	WM	ps	Mx	W	k	
256.53	259.88	2Bi	Bx	M	p	Sx	WM	v	Cx	W	ps	

DDH W1620 Alteration Log

Hole ID: W1620 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: iquinn
Collar Depth: 2.4 m Hole Depth: 501 m
Collar Coordinates: 577887.9mE 5394762mN (UTM NAD83)
Azimuth: 180 degrees Dip: -45 degrees
Core Size: NQ
Drilling Start Date: Feb 17, 2016
Drilling End Date: Feb 21, 2016
Drilled by: Boreal Drilling

Interval (m)		Major Rock Name	Alteration 1	Intensity	Mode	Alteration 2	Intensity	Mode	Alteration 3	Intensity	Mode	AlterationComments
From	To											
259.88	269.9	2c	Bx	M	ps	Sx	WM	v	Cx	W	k	
269.9	271.7	2Bi	Bx	M	ps	Cx	WM	k	Fx	W	ps	
271.7	272.32	12	Cx	M	ps	Sx	WM	v	Fx	W	ps	
272.32	276.24	2cs	Ax	M	ps	Cx	WM	p	Fx	W	ps	
276.24	278.6	2s	Ax	M	p	Fx	WM	p	Cx	WM	ps	
278.6	282.91	2cs	Fx	M	ps	Ax	WM	ps	Bx	WM	k	
282.91	285.02	12	Cx	M	p	Sx	W	v				
285.02	285.53	2c	Fx	WM	p	Bx	W	k	Mx	W	k	
285.53	287.04	12	Cx	M	p	Sx	W	v				
287.04	289.7	2Bi	Bx	M	k	Fx	WM	ps	Cx	W	k	
289.7	291.16	12	Cx	WM	k							
291.16	295.39	2Bi	Bx	M	k	Fx	WM	ps	Cx	W	k	
295.39	307.07	2c	Bx	M	ps	Fx	WM	ps	Cx	WM	k	
307.07	313.02	2Bi	Bx	M	ps	Fx	WM	ps	Cx	WM	k	
313.02	317.48	12	Cx	WM	p							
317.48	324.21	2c	Bx	WM	k	Fx	WM	ps	Cx	W	k	
324.21	325.76	12	Cx	M	k							
325.76	329.93	2Bi	Bx	M	ps	Fx	WM	ps	Cx	W	ps	
329.93	332.7	2c	Bx	M	ps	Fx	WM	ps	Cx	WM	ps	
332.7	334.31	12	Cx	WM	p							
334.31	343.35	2c	Bx	M	ps	Fx	M	ps	Cx	WM	ps	
343.35	347.82	2Bi	Bx	M	ps	Cx	WM	ps	Fx	WM	ps	
347.82	349.95	2c	Bx	WM	ps	Fx	WM	ps	Cx	W	ps	
349.95	351.54	2FT	Fx	WM	p	Bx	WM	ps	Cx	W	ps	
351.54	359.71	2cs	Fx	MS	p	Cx	WM	ps	Bx	W	k	
359.71	364.83	3f	Fx	M	p	Bx	W	ps	Cx	W	k	
364.83	366.74	3c	Fx	M	p	Bx	WM	k	Cx	WM	ps	
366.74	368.73	3f	Fx	WM	ps	Cx	W	ps	Sx	W	v	
368.73	369.58	11	Cx	MS	p	Bx	M	ps	Sx	W	v	
369.58	370.65	3f	Fx	WM	ps	Cx	W	v	Bx	W	k	
370.65	376.07	2Bi	Bx	M	p	Cx	WM	ps	Sx	W	v	
376.07	390.39	3f	Fx	WM	ps	Bx	WM	k	Cx	W	k	
390.39	391.91	3Bi	Bx	M	p	Cx	WM	p	Fx	W	ps	
391.91	403.43	3f	Bx	WM	ps	Fx	WM	ps	Sx	W	v	
403.43	405.49	12	Cx	MS	p	Bx	WM	ps	Fx	W	ps	
405.49	411.05	3fs	Fx	M	p	Bx	WM	ps	Cx	W	k	
411.05	412.55	12	Cx	MS	p	Sx	WM	v	Bx	W	ps	
412.55	419.77	3fs	Fx	M	p	Bx	WM	k	Cx	W	k	
419.77	420.47	3sMo	Sx	MS	ps	Cx	WM	ps	Fx	WM	ps	
420.47	425.32	3fs	Fx	M	p	Bx	WM	k	Cx	W	k	
425.32	426.06	3sMo	Sx	MS	ps	Cx	WM	ps	Fx	WM	ps	
426.06	431.17	3fs	Fx	M	p	Bx	WM	k	Sx	W	v	
431.17	431.84	4s	Fx	MS	p	Bx	WM	k	Cx	W	k	
431.84	432.56	3fs	Fx	M	p	Bx	WM	k	Cx	W	k	
432.56	435.25	4s	Fx	MS	b	Bx	WM	k	Cx	W	k	
435.25	436.17	12	Cx	M	p	Sx	WM	v				
436.17	444.6	4s	Fx	MS	b	Bx	WM	k	Cx	W	k	
444.6	448.95	4c	Bx	M	ps	Ax	W	k	Cx	W	k	
448.95	457.25	4kt	Bx	M	ps	Fx	WM	ps	Ax	W	k	
457.25	462.72	4c	Bx	M	ps	Fx	WM	ps	Ax	WM	ps	
462.72	474.56	4q	Bx	M	ps	Ax	WM	k	Fx	WM	ps	
474.56	481.2	4c	Bx	WM	ps	Fx	WM	ps	Ax	W	k	
481.2	485.42	4kt	Bx	M	ps	Mx	WM	k	Ax	W	k	

DDH W1620 Alteration Log

Hole ID: W1620 Project Code: WOC Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: iquinn
 Collar Depth: 2.4 m Hole Depth: 501 m
 Collar Coordinates: 577887.9mE 5394762mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -45 degrees
 Core Size: NQ
 Drilling Start Date: Feb 17, 2016
 Drilling End Date: Feb 21, 2016
 Drilled by: Boreal Drilling

Interval (m)		Major Rock Name	Alteration 1	Intensity	Mode	Alteration 2	Intensity	Mode	Alteration 3	Intensity	Mode	AlterationComments
From	To											
485.42	489.07	4c	Bx	WM	ps	Ax	W	k	Mx	W	k	
489.07	495.1	4Mu	Bx	WM	k	Mx	WM	k	Sx	W	v	
495.1	501	4c	Bx	WM	ps	Cx	WM	ps	Ax	W	ps	

DDH W1620 Mineralization Log

Hole ID: W1620 Project Code: WOC Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: jquinn
 Collar Depth: 2.4 m Hole Depth: 501 m
 Collar Coordinates: 577887.9mE 5394762mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -45 degrees
 Core Size: NQ
 Drilling Start Date: Feb 17, 2016
 Drilling End Date: Feb 21, 2016
 Drilled by: Boreal Drilling

Interval (m)		Ore Mineral 1	Mineralization Mode	Mineralization Percentage	Ore Mineral 2	Mineralization Percentage	Major Surrounding Rock Type	Comments
From	To							
20.91	26.8	Py	k	0.01			4c	
72.82	76.64	Py	k	0.01			4Mu	
76.64	98.21	Py	d	0.01			4q	
129.92	133.9	Py	d	0.02			4kt	
133.9	138.93	Py	d	0.03			4c	
138.93	155.62	Py	d	0.01			4q	
182.35	197.18	Py	k	0.01			4q	
197.18	208.64	Py	k	0.05			4kt	
208.64	215.73	Py	k	0.1			4q	
215.73	216.11	Py	d	0.2			12	
216.11	222.52	Py	k	0.01			4q	
222.52	224.3	Py	k	0.05			4kt	
224.3	234.53	Py	d	0.01			2c	
240.55	241.92	Py	v	0.1			11	
241.92	243.33	Py	d	0.01			2c	
243.33	243.67	Py	d	0.2			11	
247.1	248.75	Py	d	0.1			11	
249.54	256.53	Py	k	0.05			2c	
256.53	259.88	Py	d	0.01			2Bi	
259.88	269.9	Py	k	0.01			2c	
269.9	271.7	Py	d	0.02			2Bi	
271.7	272.32	Py	d	0.1			12	
276.24	278.6	Py	d	0.01			2s	
278.6	282.91	Py	d	0.02			2cs	
282.91	285.02	Py	d	0.5			12	
285.53	287.04	Py	d	0.5			12	
287.04	289.7	Py	d	0.3			2Bi	
289.7	291.16	Py	d	0.2			12	
291.16	295.39	Py	d	0.1			2Bi	
295.39	307.07	Py	k	0.05			2c	
307.07	313.02	Py	k	0.01			2Bi	
317.48	324.21	Py	k	0.01			2c	
325.76	329.93	Py	d	0.01			2Bi	
329.93	332.7	Py	d	0.01			2c	
332.7	334.31	Py	d	0.05			12	
334.31	343.35	Py	d	0.05			2c	
343.35	347.82	Py	k	0.25			2Bi	
347.82	349.95	Py	k	0.25			2c	
349.95	351.54	Py	d	0.1			2FT	
351.54	359.71	Py	d	0.02			2cs	
359.71	364.83	Py	d	0.1			3f	
364.83	366.74	Py	d	0.02			3c	
366.74	368.73	Py	d	0.05			3f	
368.73	369.58	Py	d	0.5			11	
369.58	370.65	Py	d	0.02			3f	
376.07	390.39	Py	d	0.05			3f	
390.39	391.91	Py	d	0.01			3Bi	

DDH W1620 Mineralization Log

Hole ID: W1620 Project Code: WOC Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: jquinn
 Collar Depth: 2.4 m Hole Depth: 501 m
 Collar Coordinates: 577887.9mE 5394762mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -45 degrees
 Core Size: NQ
 Drilling Start Date: Feb 17, 2016
 Drilling End Date: Feb 21, 2016
 Drilled by: Boreal Drilling

Interval (m)		Ore Mineral 1	Mineralization Mode	Mineralization Percentage	Ore Mineral 2	Mineralization Percentage	Major Surrounding Rock Type	Comments
From	To							
391.91	403.43	Py	d	0.01			3f	
403.43	405.49	Py	d	0.02			12	
405.49	411.05	Py	d	0.01			3fs	
411.05	412.55	Py	d	0.1			12	
412.55	419.77	Py	d	0.01			3fs	
419.77	420.47	Py	d	0.05	Mo	0.025	3sMo	
420.47	425.32	Py	d	0.025			3fs	
425.32	426.06	Py	d	0.05	Mo	0.025	3sMo	
426.06	431.17	Py	d	0.01			3fs	
431.17	431.84	Py	d	0.05	Mo	0.01	4s	
431.84	432.56	Py	d	0.01			3fs	
432.56	435.25	Py	d	0.5			4s	
435.25	436.17	Py	d	0.25			12	
436.17	444.6	Py	d	0.5			4s	
444.6	448.95	Py	d	0.1			4c	
448.95	457.25	Py	k	0.05			4kt	
457.25	462.72	Py	d	0.025			4c	
462.72	474.56	Py	d	0.01			4q	
474.56	481.2	Py	k	0.025			4c	
481.2	485.42	Py	k	0.01			4kt	
485.42	489.07	Py	k	0.01			4c	

DDH W1620 Structural Log

Hole ID: W1620 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: jquinn
Collar Depth: 2.4 m Hole Depth: 501 m
Collar Coordinates: 577887.9mE 5394762mN (UTM NAD83)
Azimuth: 180 degrees Dip: -45 degrees
Core Size: NQ
Drilling Start Date: Feb 17, 2016
Drilling End Date: Feb 21, 2016
Drilled by: Boreal Drilling

Depth	Major Surrounding Rock Type	Structure Type	Structure Subtype	Structure Infill	Alpha Angle	Gange Mineral	Roughness	Thickness (mm)	Structure Comments
8.72	4s	FO		N	66		Smooth		
16.21	4s	FO		N	61		Smooth		
25.1	4c	FR		S3	7		Smooth		
31.95	4c	FR		N	25		Smooth		
35.4	4c	FR		N	39		Smooth		
37.2	4c	FO		N	61		Smooth		
38.6	4c	FR		N	10		Smooth		
45.2	4q	FO		S3	58		Smooth		
46.2	4q	FT		S2	8		Smooth		
46.82	4q	FT		S3	48		Smooth		
49	4q	FR		S3	25		Smooth		
51.3	4q	FR		S3	7		Smooth		
51.75	4q	FO		N	65		Smooth		
60.86	4c	FO		N	66		Smooth		
70.73	4c	FO		N	60		Smooth		
74.77	4mu	FO		N	57		Smooth		
85.69	4q	FR		N	36		S_rough		
86.06	4q	FO		N	72		Smooth		
92	4q	FR		N	67		Smooth		
99.7	4mu	FO		S3	64		Slicken		
101.9	4kt	FR		N	54		Smooth		
106.08	4kt	FO		N	66		Smooth		
116.62	4kt	FO		N	61		Smooth		
117.95	4q	FR		H3	32		S_rough		
120.6	4q	FR		H3	14		Smooth		
123.3	4q	FO		S3	61		Smooth		
125.03	4q	FT		S3	67		Smooth		
128.3	4q	FO		S3	66		Smooth		
138.18	4c	FO		N	66		Smooth		
153.57	4q	FO		N	73		Smooth		
160.5	4c	FO		N	66		Smooth		
167.3	4c	FR		S3	20		Smooth		
168.68	4c	FO		N	70		Smooth		
170.2	4c	FR		H3	32		S_rough		
176.07	4c	FO		N	62		Smooth		
179.6	4c	FR		H3	25		Smooth		
183.74	4q	FO		N	68		Smooth		
190.4	4q	FT		S2	68		Smooth		
191.8	4q	FR		H3	11		S_rough		
192.5	4q	FO		N	63		Smooth		
198.84	4kt	FO		N	66		Smooth		
203.75	4kt	FO		N	66		Smooth		
216.11	12	CT		N	66		Smooth		
227.35	2c	FR		N	19		Smooth		
240.55	2c	CT		N	20		Smooth		
255.33	2c	FO		S3	64		Smooth		
256.15	2c	FT		S2	69		Smooth		
258.9	2bi	FO		N	69		Smooth		
259.82	2bi	FR		N	45		S_rough		
265.32	2c	FO		N	61		Smooth		
270.84	2bi	FO		N	70		Smooth		
278.4	2s	FO		N	63		Smooth		
279.25	2cs	FR		N	59		Smooth		
279.6	2cs	FR		N	43		Smooth		
280.74	2cs	FO		N	66		Smooth		
282.25	2cs	FR		N	40		Smooth		
282.96	12	FT		S2	58		Smooth		

DDH W1620 Structural Log

Hole ID: W1620 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: jquinn
Collar Depth: 2.4 m Hole Depth: 501 m
Collar Coordinates: 577887.9mE 5394762mN (UTM NAD83)
Azimuth: 180 degrees Dip: -45 degrees
Core Size: NQ
Drilling Start Date: Feb 17, 2016
Drilling End Date: Feb 21, 2016
Drilled by: Boreal Drilling

Depth	Major Surrounding Rock Type	Structure Type	Structure Subtype	Structure Infill	Alpha Angle	Gange Mineral	Roughness	Thickness (mm)	Structure Comments
283.44	2c	FR		N	58		Smooth		
285.75	12	FO		N	66		Smooth		
290.92	12	FR		N	76		Smooth		
296.6	2c	FR		S3	21		Smooth		
299.05	2c	FR		N	78		Smooth		
303.87	2c	FR		N	53		Smooth		
305.08	2c	FO		N	64		Smooth		
309.08	2bi	FR		N	50		Smooth		
310.5	2bi	FO		N	66		Smooth		
319.23	2c	FO		N	63		Smooth		
323.27	2c	FT		S2	69		Smooth		
323.37	2c	FT		S2	58		Smooth		
326.25	2bi	FO		N	70		Smooth		
327.3	2bi	FR		H3	14		Smooth		
328.25	2bi	FR		H3	15		Smooth		
331.65	2c	FR		H3	20		Smooth		
349.75	2c	FO		N	69		Smooth		
350.12	2c	FT		S1	64		Smooth		
350.36	2c	FT		S1	43		Smooth		
351.08	2c	FT		S1	43		Smooth		
351.3	2c	FT		S1	38		Smooth		
353	2cs	FO		N	68		Smooth		
354.86	2cs	FR		N	36		Smooth		
359.65	2cs	FO		N	73		Smooth		
361.1	3f	FR		N	45		Smooth		
363.58	3f	FR		N	30		Smooth		
363.72	3f	FR		N	35		Smooth		
367.98	3f	FR		N	36		Smooth		
369.35	11	FR		N	46		Smooth		
373.47	2bi	FR		H3	26		Smooth		
379.41	3f	CT		N	52		Smooth		
381.72	3f	FO		N	66		Smooth		
386.31	3f	FR		N	61		Smooth		
389.03	3f	FO		N	66		Smooth		
389.37	3f	FR		N	55		Smooth		
391.77	3bi	FR		H3	35		S_rough		
393.85	3f	FR		H3	34		S_rough		
397.13	3f	FO		N	67		Smooth		
402.35	3f	FO		N	61		Smooth		
403.8	12	FR		N	46		Smooth		
405.13	12	FR		N	74		Slicken		
406.48	3fs	FR		H3	40		S_rough		
409.05	3fs	FR		H3	22		S_rough		
410.27	3fs	FO		N	69		Smooth		
411.23	12	FT		S2	64		Smooth		
412.5	12	FO		N	66		Smooth		
414.45	3fs	FR		N	58		Smooth		
416.02	3fs	FR		H3	23		S_rough		
416.65	3fs	FO		N	73		Slicken		
417.98	3ffs	FR		N	35		S_rough		
419.62	3fs	FR		N	54		Smooth		
422.03	3fs	FO		N	78		Smooth		
423.83	3fs	FR		N	26		Smooth		
424.11	3fs	FO		N	68		Smooth		
426.62	3fs	FR		N	35		S_rough		
429	3fs	FR		H3	33		S_rough		

DDH W1620 Structural Log

Hole ID: W1620 Project Code: WOC Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: iquinn
 Collar Depth: 2.4 m Hole Depth: 501 m
 Collar Coordinates: 577887.9mE 5394762mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -45 degrees
 Core Size: NQ
 Drilling Start Date: Feb 17, 2016
 Drilling End Date: Feb 21, 2016
 Drilled by: Boreal Drilling

Depth	Major Surrounding Rock Type	Structure Type	Structure Subtype	Structure Infill	Alpha Angle	Gange Mineral	Roughness	Thickness (mm)	Structure Comments
431.3	4s	FO		N	72		Smooth		
433.25	4s	FR		N	4		Smooth		
434	4s	FO		N	64		Smooth		
435.25	4s	CT		N	60		Smooth		
436.15	12	FO		N	65		Smooth		
452.96	4kt	FO		N	71		Smooth		
455.11	4kt	FR		N	78		Smooth		
457.1	4kt	FR		H3	18		S_rough		
462.45	4c	FR		H3	27		S_rough		
463.87	4q	FO		N	68		Smooth		
466.52	4q	FO		N	74		Smooth		
472.8	4q	FR		H3	35		S_rough		
474.72	4c	FR		N	46		S_rough		
482.38	4kt	FO		N	71		Smooth		
484.52	4kt	FR		H3	30		S_rough		
491.35	4mu	FR		H3	30		S_rough		
494.35	4mu	FO		N	68		Smooth		
500.03	4c	FO		N	71		Smooth		

DDH W1620 Geotechnical Log

Hole ID: W1620 Project Code: WOC_Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: iquinn
 Collar Depth: 2.4 m Hole Depth: 501 m
 Collar Coordinates: 577887.9mE 5394762mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -45 degrees
 Core Size: NQ
 Drilling Start Date: Feb 17, 2016
 Drilling End Date: Feb 21, 2016
 Drilled by: Boreal Drilling

Interval (m)		Total Recovery (m)	RQD Measurement (m)	Rock Strength	Weathering	Number of Discontinuity Sets	Discontinuity Set 1						Discontinuity Set 2						Discontinuity Set 3						Comments
From	To						Alpha Angle	Frequency	Infill	Length	Roughness	Type	Alpha Angle	Frequency	Infill	Length	Roughness	Type	Alpha Angle	Frequency	Infill	Length	Roughness	Type	
159	162	2.96	2.85	R4	W1	J1	68	6	N	3	Smooth	FO													
162	165	3.01	3.01	R4	W1	J1	66	2	N	3	Smooth	FO													
165	168	2.98	2.9	R4	W1	J1	20	1	S3	3	Smooth	FR													
168	171	2.96	2.88	R4	W1	J2	70	3	N	3	Smooth	FO	32	3	H3	3	S_rough	FR							

Appendix D

DDH W1621 Drill Logs

DDH W1621 Major Lithology Log

Hole ID: W1621 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: mmcleod
Collar Depth: 6.0 m Hole Depth: 456 m
Collar Coordinates: 577828.3mE 5394745mN (UTM NAD83)
Azimuth: 180 degrees Dip: -45 degrees
Core Size: NQ
Drilling Start Date: Feb 22, 2016
Drilling End Date: Feb 27, 2016
Drilled by: Boreal Drilling

LoggedDate	Interval (m)		Major Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Texture 3	Intensity	Mineralization	Percentage Mineralization
	From	To											
29-Feb-16	0	6	0										
29-Feb-16	6	8.83	4q	brngy	fg	q	MS	k	WM				
29-Feb-16	8.83	10.32	4q	dkgy	f-mg	q	MS	VS	MS	f	WM		
29-Feb-16	10.32	16.1	4q	dkgy	f-mg	q	MS	c	WM	f	WM		
29-Feb-16	16.1	25.24	4q	ltgy-dkgy	fg	k	M	c	W				
29-Feb-16	25.24	25.64	16	wht	cg								
29-Feb-16	25.64	35	4q	dkgy	fg	k	WM	c	W	q	S		
29-Feb-16	35	37.17	4c	dkgy	f-mg	c	MS	f	M				
29-Feb-16	37.17	42.43	4q	pnk	f-mg	k	M	q	MS				
29-Feb-16	42.43	49	4c	dkgy	f-mg	c	MS	q	S				
29-Feb-16	49	53.65	4q	grngry	fg	c	WM	f	WM	q	MS		
29-Feb-16	53.65	55.13	4c	dkgy	f-mg	f	M	c	M				
29-Feb-16	55.13	69.67	4q	ltgy-dkgy	f-mg	k	M	c	W	f	MS		
1-Mar-16	69.67	84.39	4c	dkgy	f-mg	c	M	f	WM	q	S		
1-Mar-16	84.39	87	4q	dkgy	f-mg	k	S	f	WM				
1-Mar-16	87	91.89	4Mu	ltgy-dkgy	f-mg	k	S	f	M				
1-Mar-16	91.89	92.5	4q	dkgy	fg	q	S						
1-Mar-16	92.5	94.11	4Mu	ltgy-dkgy	f-mg	k	S						
1-Mar-16	94.11	96.23	4c	dkgy	f-mg	c	MS	f	S				
1-Mar-16	96.23	97.43	4Mu	ltgy-dkgy	f-mg	k	S	f	WM				
1-Mar-16	97.43	101.55	4q	dkgy	f-mg	f	MS	q	S				
1-Mar-16	101.55	119.23	4Mu	ltgy-dkgy	f-mg	k	S	f	M	c	W		
1-Mar-16	119.23	121	4kt	ltgy-dkgy	fg	k	M						
1-Mar-16	121	126.16	4c	grngry	f-mg	c	MS						
1-Mar-16	126.16	132.4	4kt	ltgy-dkgy	fg	k	MS	c	W				
1-Mar-16	132.4	135.4	4kt	grngry	f-mg	c	W	k	M				
1-Mar-16	135.4	139.58	4q	dkgy	fg	PS	WM	k	WM				
1-Mar-16	139.58	142.47	4FT	dkgy	fg	k	WM	PS	WM				
1-Mar-16	142.47	162.08	4q	dkgy	f-mg	k	M	PS	WM	c	WM		
2-Mar-16	162.08	175.5	4kt	dkgy	f-mg	k	MS	c	WM	PS	WM		
2-Mar-16	175.5	180.76	4q	ltgy-dkgy	fg	k	MS						
2-Mar-16	180.76	183.24	4q	dkgy	f-mg	k	WM	c	W				
2-Mar-16	183.24	199.33	4Mu	ltgy-dkgy	fg	k	MS	PS	WM	c	W		
2-Mar-16	199.33	199.69	12	grn	fg	n	WM						
2-Mar-16	199.69	202.72	4Mu	ltgy-dkgy	fg	k	M	PS	WM				
2-Mar-16	202.72	210.23	4q	dkgy	f-mg	c	W	PS	M				
2-Mar-16	210.23	217.27	4q	dkgy	f-mg	c	W	k	W				
2-Mar-16	217.27	230	4c	ltgy-dkgy	f-mg	c	MS	k	M				
2-Mar-16	230	232.44	4c	pnk	f-mg	c	M						
2-Mar-16	232.44	234.13	4c	ltgy-dkgy	f-mg	c	MS						
2-Mar-16	234.13	240.31	4q	ltgy-dkgy	f-mg	q	S	k	WM	c	W		
3-Mar-16	240.31	249.24	2c	ltgy-dkgy	f-mg	c	M	k	M				
3-Mar-16	249.24	254.55	2cs	medgy	f-mg	c	M						
3-Mar-16	254.55	255.09	12	blk	f-mg	n	M						
3-Mar-16	255.09	266.8	2cs	ltgy-medgy	f-mg	c	M						
3-Mar-16	266.8	267.34	12	blk	f-mg	n	MS						
3-Mar-16	267.34	270.86	2cs	medgy	f-mg	c	M						
3-Mar-16	270.86	271.76	2Bi	blk	f-mg	k	W	c	W				
3-Mar-16	271.76	273.48	2cs	medgy	f-mg	c	MS	k	WM				
3-Mar-16	273.48	281.85	2Bi	dkgy	fg	k	WM						
3-Mar-16	281.85	295.47	2c	medgy	f-mg	c	M						
3-Mar-16	295.47	303	2Bi	dkgy	fg	k	WM						
3-Mar-16	303	307.04	2cs	medgy	f-mg	c	M						
3-Mar-16	307.04	307.89	2Bi	dkgy	fg	k	WM						
3-Mar-16	307.89	308.6	12	blk	f-mg	n	MS						
3-Mar-16	308.6	308.91	2Bi	dkgy	f-mg	k	W						
3-Mar-16	308.91	316.94	2cs	medgy	f-mg	c	M	k	WM				
3-Mar-16	316.94	318.39	2Bi	dkgy	fg	k	W						
3-Mar-16	318.39	329.46	2cs	medgy	f-mg	c	M	k	WM				
3-Mar-16	329.46	336.14	2c	dkgy	f-mg	c	M						
3-Mar-16	336.14	338.09	2FT	dkgy	f-mg	c	M						
4-Mar-16	338.09	342.53	2Bi	dkgy	fg	c	W						
4-Mar-16	342.53	343.56	12	blk	f-mg	n	MS						

DDH W1621 Major Lithology Log

Hole ID: W1621 Project Code: WOC Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: mmcleod
 Collar Depth: 6.0 m Hole Depth: 456 m
 Collar Coordinates: 577828.3mE 5394745mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -45 degrees
 Core Size: NQ
 Drilling Start Date: Feb 22, 2016
 Drilling End Date: Feb 27, 2016
 Drilled by: Boreal Drilling

LoggedDate	Interval (m)		Major Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Texture 3	Intensity	Mineralization	Percentage Mineralization
	From	To											
4-Mar-16	343.56	350.27	3f	medgy	f-mg	e	M	f	S				
4-Mar-16	350.27	359.35	2Bi	dkgy	fg	c	W	PS	WM	k	WM		
4-Mar-16	359.35	381.56	3f	medgy	f-mg	e	M	f	S	c	W		
4-Mar-16	381.56	382.22	3FT	medgy	f-mg	e	M	f	S				
4-Mar-16	382.22	393.48	3f	medgy	f-mg	e	M	f	S	c	W		
4-Mar-16	393.48	394	12	blk	f-mg	n	MS						
4-Mar-16	394	395.85	3f	dkgy	f-mg	e	W	f	MS				
4-Mar-16	395.85	397	12	blk	f-mg	n	MS						
4-Mar-16	397	398.43	3f	medgy	f-mg	f	MS						
4-Mar-16	398.43	399	12	blk	f-mg	n	MS						
4-Mar-16	399	402.91	3f	medgy	f-mg	e	W	f	S				
4-Mar-16	402.91	403.6	12	blk	f-mg	n	MS						
4-Mar-16	403.6	405.82	3f	medgy	f-mg	e	W	f	MS				
4-Mar-16	405.82	407.93	12	blk	f-mg	n	MS						
4-Mar-16	407.93	409.34	3f	medgy	f-mg	f	MS						
4-Mar-16	409.34	411.68	12	blk	f-mg	n	MS						
4-Mar-16	411.68	417	3sMu	ltgy-medgy	f-mg	e	W	f	MS				
4-Mar-16	417	421.15	3fMu	medgy	f-mg	e	W	f	MS				
4-Mar-16	421.15	423.24	2Bi	dkgy	fg	c	WM	k	WM				
4-Mar-16	423.24	426.62	3fMu	medgy	f-mg	f	MS						
4-Mar-16	426.62	439.64	2Bi	dkgy	f-mg	c	MS						
8-Mar-16	439.64	456	4Mu	brngy	fg	k	M	c	W				

DDH W1621 Minor Lithology Log

Hole ID: W1621 Project Code: WOC - Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: mmcleod
 Collar Depth: 6.0 m Hole Depth: 456 m
 Collar Coordinates: 577828.3mE 5394745mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -45 degrees
 Core Size: NQ
 Drilling Start Date: Feb 22, 2016
 Drilling End Date: Feb 27, 2016
 Drilled by: Boreal Drilling

Interval (m)		Minor Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Major Surrounding Rock Type
From	To								
24.81	24.92	16	wht	cg					4q
36.62	36.78	9f	ltgy-dkgy	f-mg	f	MS			4c
37.11	37.17	9f	medgy	f-mg	f	MS			4c
55.11	55.28	9f	dkgy	f-mg	f	S			4q
55.75	55.86	9f	dkgy	f-mg	f	S			4q
55.96	56.16	9f	dkgy	f-mg	f	S			4q
60.74	61.42	9f	dkgy	f-mg	f	MS	c	WM	4q
73.82	73.93	16	wht	cg					4c
89.28	89.68	9f	dkgy	f-mg	f	MS			4mu
104.87	105.28	9f	dkgy	f-mg	f	MS			4mu
105.44	105.6	9f	dkgy	f-mg	f	MS			4mu
118.71	119	4s	ltgy-dkgy	fg					4mu
137.81	137.92	16	wht	cg					4q
148.98	149.03	16	wht	cg					4q
149.1	149.19	16	wht	cg					4q
171.09	171.17	16	wht	cg					4kt
176.26	176.37	16	wht	cg					4q
199.69	199.78	16	wht	cg					4mu
204.91	205.17	8e	ltgy	f-mg	e	WM			4q
225.18	225.3	11	blugy	fg	n	WM			2cs
233.72	233.85	11	dkgy	fg	n	WM			4c
240.52	240.6	16	wht	cg					2cs
246.44	246.63	12	blk	f-mg					1c
268.94	269.17	12	blk	f-mg	n	MS			2cs
284.84	285.02	12	blk	f-mg	n	M			2c
285.78	285.82	12	blk	f-mg	n	MS			2c
308.29	308.38	2Bi	dkgy	fg					12
353.3	353.77	16	wht	cg					3f
359.35	359.46	16	wht	cg					3f
368.87	368.95	16	wht	cg					3f
383.76	383.82	12	blk	f-mg	n	WM			3f
387.97	388.03	12	blk	f-mg	n				3f
394	394.6	12	blk	f-mg	n	MS			3f
395.85	396	3f							12
396.24	396.48	3f							3f
397	397.67	12							3f
407.45	407.93	3f							3f
408	408.62	12							3f
410.27	410.58	16	wht	cg					12
415.67	415.72	12	blk	f-mg	n	MS			3sMu
416.82	417.02	12	blk	f-mg					3fMu
417.13	417.59	16	wht	cg					3fMu
426.76	426.87	3f							2Bi
433.46	433.52	12	blk	f-mg	n	MS			2Bi
436.45	436.58	16	wht	cg					2Bi
446.9	447.01	16	wht	cg					4mu
447.54	447.67	16	wht	cg					4mu

Hole ID: W1621 Project Code: WOC Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: mmcleod
 Collar Depth: 6.0 m Hole Depth: 456 m
 Collar Coordinates: 577828.3mE 5394745mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -45 degrees
 Core Size: NQ
 Drilling Start Date: Feb 22, 2016
 Drilling End Date: Feb 27, 2016
 Drilled by: Boreal Drilling

Interval (m)		Major Rock Name	Alteration 1	Intensity	Mode	Alteration 2	Intensity	Mode	Alteration 3	Intensity	Mode	AlterationComments
From	To											
6	8.83	4q	Cx	MS	k	Mx	WM	k	Ax	WM	k	Section exhibits weak pervasive feldspathization.
8.83	10.32	4q	Cx	MS	p	Bx	WM	p				
10.32	16.1	4q	Cx	MS	p	Mx	W	k	Fx	W	ps	This section also exhibits selectively pervasive weak-moderate biotite alteration.
16.1	25.24	4q	Cx	MS	k	Mx	WM	k	Fx	WM	p	Weak-moderate amphibole alteration is also present as small discrete bands and as interstitial agglomerates.
25.24	25.64	16	Cx	WM	g	Ax	WM	g				
25.64	35	4q	Cx	MS	k	Ax	WM	k	Fx	W	p	
35	37.17	4c	Cx	MS	k	Fx	WM	k	Rd	WM	k	
37.17	42.43	4q	Cx	MS	k	Rd	M	ps	Ax	WM	p	Potassic alteration is selectively pervasive and occurs as small discrete bands in this section.
42.43	49	4c	Cx	MS	k	Fx	WM	c	Ax	W	p	
49	53.65	4q	Cx	MS	k	Ax	WM	ps	Fx	W	p	
53.65	55.13	4c	Fx	WM	p	Ax	WM	p				
55.13	69.67	4q	Fx	WM	p	Mx	WM	k	Ax	WM	k	
69.67	84.39	4c	Cx	MS	k	Mx	WM	k	Fx	W	k	
84.39	87	4q	Mx	M	k	Fx	WM	k	Ax	WM	k	
87	91.89	4Mu	Cx	MS	k	Mx	M	k	Fx	WM	p	
91.89	92.5	4q	Mx	W	k	Fx	W	p				
92.5	94.11	4Mu	Cx	MS	k	Mx	M	k	Fx	WM	p	
94.11	96.23	4c	Cx	M	m	Mx	WM	u	Ax	WM	k	
96.23	97.43	4Mu	Cx	MS	k	Mx	M	k	Fx	WM	p	
97.43	101.55	4q	Cx	MS	k	Fx	WM	k	Ax	WM	k	
101.55	119.23	4Mu	Cx	MS	k	Mx	M	ps	Fx	W	p	weak-moderate epidote alteration is present as infills
119.23	121	4kt	Cx	MS	k	Ax	MS	k	Mx	WM	k	Pervasive weak feldspathization is exhibited.
121	126.16	4c	Cx	MS	u	Mx	WM	p	Fx	W	p	
126.16	132.4	4kt	Cx	MS	k	Ax	MS	k	Mx	WM	k	This section exhibits pervasive weak feldspathization; localized bands of weak-moderate strength (feldspathization) are present as well.
132.4	135.4	4kt	Cx	MS	k	Ax	MS	k	Mx	WM	ps	
135.4	139.58	4q	Cx	M	k	Mx	WM	k	Fx	W	p	
139.58	142.47	4FT	Cx	MS	k	Ax	MS	k	Mx	WM	ps	
142.47	162.08	4q	Cx	MS	k	Ax	MS	k	Fx	WM	k	This section also exhibits weak-moderate muscovite alteration bands.
162.08	175.5	4kt	Ax	MS	k	Fx	WM	k	Rd	WM	k	This section also exhibits weak-moderate banded muscovite alteration and carbonate alteration. This section also exhibits weak-moderate epidote
175.5	180.76	4q	Ax	M	k	Mx	WM	k	Fx	WM	k	
180.76	183.24	4q	Ax	MS	k	Ex	M	v	Mx	W	ps	
183.24	199.33	4Mu	Ax	MS	k	Mx	WM	k	Fx	WM	k	
199.33	199.69	12	Ax	WM	p							
199.69	202.72	4Mu	Ax	M	k	Fx	WM	k	Mx	WM	k	Moderate-strong carbonate alteration is exhibited as bands and is associated with the amphibole bands.
202.72	210.23	4q	Cx	MS	k	Mx	WM	k	Fx	WM	k	Section also exhibits selectively pervasive weak-moderate amphibole alteration.
210.23	217.27	4q	Cx	MS	ps	Ax	M	k	Mx	WM	k	Section also exhibits weak-moderate banded feldspathization -
217.27	230	4c	Cx	MS	k	Ax	M	k	Fx	M	k	The section also exhibits banded weak-moderate muscovite alteration. This unit may be interpreted as a 2c
230	232.44	4c	Cx	M	p	Fx	M	p	Rd	WM	ps	Section also exhibits moderate amphibole and biotite alteration as nodules and spots.
232.44	234.13	4c	Cx	MS	k	Ax	M	k	Fx	M	k	The section also exhibits banded weak-moderate muscovite alteration. This unit may be interpreted as a 2c
234.13	240.31	4q	Cx	MS	u	Fx	M	k	Mx	WM	k	weak-moderate amphibole alteration is present as small patches
240.31	249.24	2c	Fx	MS	k	Cx	MS	ps	Bx	WM	a	
249.24	254.55	2cs	Fx	MS	p	Cx	MS	k	Bx	M	g	
254.55	266.8	2cs	Fx	MS	p	Cx	MS	ps	Bx	WM	a	
266.8	270.86	2cs	Fx	MS	p	Cx	MS	g	Bx	M	g	
270.86	271.76	2Bi	Cx	WM	k	Fx	W	p				
271.76	273.48	2cs	Fx	MS	p	Cx	MS	ps	Bx	WM	a	
273.48	281.85	2Bi	Cx	MS	k	Bx	M	a				Carbonate alteration is also selectively pervasive. Biotite coatings rim carbonate nodules/bands.
281.85	295.47	2c	Fx	M	u	Cx	M	ps	Bx	M	a	Fragments are feldspathized
295.47	303	2Bi	Cx	MS	k	Bx	M	a	Sx	M	v	Biotite rims carbonate bands/nodules.
303	307.04	2cs	Fx	MS	p	Cx	M	ps	Bx	M	k	
307.04	307.89	2Bi	Cx	MS	k	Bx	M	a	Fx	W	p	
307.89	308.6	2Bi	Cx	M	p	Bx	WM	p	Fx	W	p	
308.6	308.91	2Bi	Cx	M	p	Bx	WM	p	Fx	W	p	
308.91	316.94	2cs	Fx	MS	p	Cx	M	ps	Bx	WM	k	
316.94	318.39	2Bi	Cx	MS	k	Bx	M	a	Fx	W	k	
318.39	329.46	2cs	Fx	MS	p	Cx	MS	ps	Bx	WM	k	In some cases
329.46	336.14	2c	Cx	M	ps	Fx	M	c	Bx	M	p	
336.14	338.09	2FT	Cx	M	ps	Fx	M	c	Bx	M	p	
338.09	342.53	2Bi	Cx	MS	k	Bx	WM	a	Fx	WM	c	Fragments are feldspathized - carbonate bands are rimmed by biotite.
342.53	343.56	3f	Fx	M	k	Cx	WM	m	Bx	WM	p	Although feldspathization primarily occurs as bands in this unit
343.56	350.27	2Bi	Cx	MS	k	Fx	M	k	Sx	M	v	
350.27	359.35	3f	Cx	MS	m	Mx	WM	p	Bx	WM	a	Biotite rims carbonate nodules
359.35	381.56	3FT	Cx	MS	m	Mx	WM	p	Bx	WM	a	Biotite rims carbonate nodules
381.56	382.22	3f	Cx	MS	m	Mx	WM	ps	Bx	WM	k	Biotite rims carbonate nodules
382.22	393.48	3f	Cx	M	m	Bx	WM	k	Mx	W	p	
393.48	395.85	3f	Cx	MS	m	Bx	WM	a	Mx	W	p	
395.85	397	3f	Cx	MS	k	Mx	WM	p	Fx	WM	k	Weak-moderate biotite alteration rims carbonate bands/nodules.
397	398.45	3f	Cx	MS	k	Mx	WM	p	Fx	WM	k	
398.45	402.91	3f	Cx	MS	k	Mx	WM	p	Fx	WM	k	
402.91	403.6	3f	Cx	MS	k	Mx	WM	p	Bx	WM	k	
403.6	405.82	3f	Cx	MS	k	Mx	WM	p	Bx	WM	k	
405.82	409.34	3f	Cx	MS	k	Mx	WM	p	Bx	WM	k	
409.34	411.68	3sMu	Cx	MS	k	Mx	M	p	Fx	WM	k	weak-moderate biotite alteration rims and coats carbonate bands and nodules.
411.68	417	3fMu	Cx	MS	m	Mx	M	p	Bx	WM	k	
417	421.15	2Bi	Cx	MS	k	Bx	M	a	Fx	W	ps	
421.15	423.24	2Bi	Cx	MS	k	Bx	M	a	Fx	W	ps	
423.24	426.62	3fMu	Cx	MS	k	Bx	MS	k	Mx	WM	p	
426.62	439.64	2Bi	Cx	M	u	Bx	M	p	Mx	WM	k	
439.64	456	4Mu	Cx	MS	k	Mx	WM	k	Fx	WM	k	Section also exhibits weak-moderate banded biotite alteration

DDH W1621 Mineralization Log

Hole ID: W1621 Project Code: WOC Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: mmcleod
 Collar Depth: 6.0 m Hole Depth: 456 m
 Collar Coordinates: 577828.3mE 5394745mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -45 degrees
 Core Size: NQ
 Drilling Start Date: Feb 22, 2016
 Drilling End Date: Feb 27, 2016
 Drilled by: Boreal Drilling

Interval (m)		Ore Mineral 1	Mineralization Mode	Mineralization Percentage	Ore Mineral 2	Mineralization Percentage	Major Surrounding Rock Type	Comments
From	To							
10.32	16.1	Py	d	0.1			4q	
16.1	25.24	Po	k	0.35			4q	
35	37.17	Py	m	0.25			4c	
55.13	69.67	Py	k	0.1			4q	
87	91.89	Po	k	0.1			4Mu	
126.16	132.4	Py	k	0.1			4kt	
142.47	162.08	Py	m	0.15			4q	
175.5	180.76	Py	k	0.25			4q	
183.24	199.33	Py	k	0.4			4Mu	
199.69	202.72	Py	k	0.1			4Mu	
202.72	210.23	Py	k	1			4q	
210.23	217.27	Py	m	0.1			4q	
217.27	230	Py	m	0.1			4c	
230	232.44	Py	m	0.1			4c	
232.44	234.13	Py	k	0.25			4c	
255.09	266.8	Mo	u	0.3	Po	0.1	2cs	
267.34	270.86	Py	d	0.2	Mo	0.2	2cs	
270.86	271.76	Py	d	0.3			2Bi	
271.76	273.48	Py	d	0.4			2cs	
273.48	281.85	Py	d	0.1			2Bi	
281.85	295.47	Py	k	2			2c	
295.47	303	Py	d	0.25			2Bi	
303	307.04	Py	k	0.25	Mo	0.1	2cs	
307.04	307.89	Py	d	0.25			2Bi	
308.6	308.91	Py	d	0.1			2Bi	
308.91	316.94	Mo	k	0.1			2cs	
316.94	318.39	Py	k	0.25			2Bi	
318.39	329.46	Py	k	1			2cs	
329.46	336.14	Py	k	0.4			2c	
338.09	342.53	Py	k	0.5			2Bi	
343.56	350.27	Py	k	0.2			3f	
350.27	359.35	Py	k	0.3			2Bi	
359.35	381.56	Py	k	0.1			3f	
403.6	405.82	Py	k	0.1			3f	
411.68	417	Py	k	0.5			3sMu	
421.15	423.24	Py	k	1			2Bi	
423.24	426.62	Py	m	0.1			3fMu	
426.62	439.64	Py	d	0.1			2Bi	

DDH W1621 Structural Log

Hole ID: W1621 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: mmcleod
Collar Depth: 6.0 m Hole Depth: 456 m
Collar Coordinates: 577828.3mE 5394745mN (UTM NAD83)
Azimuth: 180 degrees Dip: -45 degrees
Core Size: NQ
Drilling Start Date: Feb 22, 2016
Drilling End Date: Feb 27, 2016
Drilled by: Boreal Drilling

Depth	Major Surrounding Rock Type	Structure Type	Structure Subtype	Structure Infill	Alpha Angle	Gange Mineral	Roughness	Thickness (mm)	Structure Comments
16.52	4q	FT		H1	55		Smooth		
18.44	4q	FT		S1	60		Smooth		It is difficult to determine the correct alpha angle of this structure
37.17	4c	CT		S3	65		Smooth		
37.54	4q	FT		H1			Smooth		Cannot discern alpha angle for this structure.
39.46	4q	FT		H1			S_rough		It is difficult to discern an alpha angle for this structural feature.
39.85	4q	FT		S2	57		Smooth		
40.98	4q	FT		S2	55		Smooth		
41.4	4q	FT		S2	65		Smooth		
43.02	4c	FT		H1	70		Smooth		
68.65	4q	FT		H1	65		Smooth		
88.66	4mu	FT		S2	65		Smooth		
101.97	4mu	FT		S2	70		Smooth		
103.08	4mu	FT		S2	60		Smooth		
135.79	4q	FT		S2	70		Smooth		
139.62	4q	FT		S2	80		Smooth		
140.28	4q	FT		S2	70		Smooth		
140.96	4q	FT		S2	70		Smooth		
141.15	4q	FT		S2	70		Smooth		
141.68	4q	FT		S2	68		Smooth		
142.1	4q	FT		S2	70		Smooth		
150.5	4q	FT		S2	60		Smooth		
156.38	4q	FT		S2	60		Smooth		
167.11	4kt	FT		S1	65		Smooth		
177.64	4q	FT		S2	65		Smooth		
202.37	4mu	FT		S2	60		Smooth		
202.45	4mu	FT		S2	60		Smooth		
202.55	4mu	FT		S2	60		Smooth		
214.58	4q	FT		S2	62		Smooth		
217.28	4c	FT		S2	61		Smooth		
217.35	4c	FT		S2	62		Smooth		
224.44	4c	FT		S2	65		Smooth		
225.18	4c	CT		S3	65		Smooth		
225.3	4c	CT		S3	60		Smooth		
236.49	4q	FT		S2	62		Smooth		
236.82	4q	FT		S2	63		Smooth		
247	4c	FT		S2	50		Smooth		
248.62	4c	FT		S2	75		Smooth		
248.83	4c	FT		S2	20		Smooth		
250.18	2cs	FT		S2	60		Smooth		
251.73	2cs	FT		S2	75		Smooth		
253.87	2cs	FT		S2	65		Smooth		
259.37	2cs	FT		S2	35		Smooth		
260.71	2cs	FT		S1	75		Smooth		
263.84	2cs	FT		S2	70		Smooth		
264.18	2cs	FT		S2	60		Smooth		
268.83	2cs	FT		S2	70		Smooth		
269	2cs	FT		S2	70		Smooth		
269.7	2cs	FT		S2	70		Smooth		
270.04	2cs	FT		S2	70		Smooth		

DDH W1621 Structural Log

Hole ID: W1621 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: mmcleod
Collar Depth: 6.0 m Hole Depth: 456 m
Collar Coordinates: 577828.3mE 5394745mN (UTM NAD83)
Azimuth: 180 degrees Dip: -45 degrees
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Drilling Start Date: Feb 22, 2016
Drilling End Date: Feb 27, 2016
Drilled by: Boreal Drilling

Depth	Major Surrounding Rock Type	Structure Type	Structure Subtype	Structure Infill	Alpha Angle	Gange Mineral	Roughness	Thickness (mm)	Structure Comments
270.86	2bi	CT		S3	70		Smooth		
271.63	2bi	FT		S2	80		Smooth		
283.13	2c	FT		S2	60		Smooth		
284.84	2c	CT		S3	35		Smooth		
285.82	2c	CT		S3	76		Smooth		
288.7	2c	CT		S3	66		Smooth		
296.41	2bi	FT		S2	70		Smooth		
313.01	2cs	FT		S2	85		Smooth		
317.69	2bi	FT		H1	60		Smooth		
320.84	2cs	FT		S2	68		Smooth		
321	2cs	FT		S2	75		Smooth		
327.38	2cs	FT		S2	75		Smooth		
336.14	2c	FT		S1	70		Smooth		
336.49	2c	FT		S2	70		Smooth		
336.96	2c	FT		S2	65		Smooth		
337.43	2c	FT		S2	70		Smooth		
337.81	2c	FT		S2	70		Smooth		
338.05	2bi	FT		S1	60		Smooth		
342.58	12	FT		S2	45		Smooth		
343.56	12	CT		S3	80		Smooth		
351.5	2bi	FT		S2	35		Smooth		
391.85	3f	FT		S2	15		Smooth		
394	12	FT		S2	10		Smooth		
394.2	3f	FT		S2	2		Smooth		A structure that is both a contact and a fault exists from approximately 394m-394.60m. This structure runs approximately parallel to the core axis and separates the 12 d
396.21	12	CT		S2	3		Smooth		A structure that is both a contact and a fault exists from approximately 395.85m-396.15m. This structure runs approximately parallel to the core axis and separates the 1.
396.34	12	CT		S2	1		Smooth		A structure that is both a contact and a fault exists from approximately 396.24m-396.48m. This structure runs approximately parallel to the core axis and separates the 1.
398.43	12	CT		S2	65		Smooth		
399	12	CT		S3	55		Smooth		
402.91	3f	CT		S2	30		Smooth		
403.39	12	FT		S2	15		Smooth		
405.59	12	FT		S2	1		Smooth		
406.05	12	FT		S2	3		Smooth		This fault runs approximately parallel to the core-axis and extends from approximately 406.05m-407.93m.
407.93	3f	FT		S2	80		Smooth		
408.48	3f	FT		S2	2		Smooth		This structure runs approximately parallel to the core-axis and extends from approximately 408m-408.62m.
409.54	12	FT		S2	25		Smooth		
409.86	12	FT		S1	60		Smooth		
410.32	12	FT		S2	2		Smooth		This fault exists from approximately 410.20m-411.34. This structure runs approximately parallel to the core axis.
413.18	3sMu	FT		H1	70		Smooth		
413.57	3sMu	FT		S2	72		Smooth		
415.67	3sMu	CT		S2	50		Smooth		
422.65	2bi	FT		S2	45		Smooth		
426.76	2bi	CT		N	70		Smooth		
432.92	2bi	FT		S2	15		Smooth		
433.46	2bi	CT		N	80		Smooth		

Appendix E

DDH W1622 Drill Logs

DDH W1622 Major Lithology Log

Hole ID: W1622 Project Code: WOC Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: twilliams
 Collar Depth: 2.5 m Hole Depth: 468 m
 Collar Coordinates: 577767.7mE 5394745mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -46 degrees
 Core Size: NQ
 Drilling Start Date: Feb 28, 2016
 Drilling End Date: Mar 11, 2016
 Drilled by: Boreal Drilling

LoggedDate	Interval (m)		Major Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Texture 3	Intensity	Mineralization	Percentage Mineralization
	From	To											
3-Mar-16	0	2.5	0										
3-Mar-16	2.5	14.29	4q	dkgy	v-mg	j	W						
3-Mar-16	14.29	14.7	16	wht									
3-Mar-16	14.7	16.88	4q	dkgy	v-mg	j	W						
3-Mar-16	16.88	18.75	4s	medgy-dkgy	f-mg	k	M	t	W				
3-Mar-16	18.75	20.1	14	blk	f-mg	f							
3-Mar-16	20.1	32.5	4q	dkgy	v-mg	j	W						
3-Mar-16	32.5	33	4FT	dkgy									
3-Mar-16	33	34	4c	dkgy		c	M						
3-Mar-16	34	37.18	4q	dkgy	v-mg	j	W						
3-Mar-16	37.18	37.73	14	blk	v-mg	f	M						
3-Mar-16	37.73	47	4q	dkgy	v-mg	j	W						
3-Mar-16	47	53	4c	dkgy	v-mg	c	W						
3-Mar-16	53	53.2	4FT	grn	vfg								
3-Mar-16	53.2	91	4q	dkgy	v-mg	c	W						
3-Mar-16	91	99.49	4Mu	ltgy-medgy	v-mg	t	W	c	W				
11-Mar-16	99.49	102.23	4c	brngy	f-mg	c	WM						
11-Mar-16	102.23	105.75	4Mu	grngry	f-mg	j	WM						
11-Mar-16	105.75	107.65	4c	brngy	f-mg	c	WM						
11-Mar-16	107.65	128.91	4Mu	grngry	f-mg	j	WM						
11-Mar-16	128.91	140.58	4kt	grngry	f-mg	k	M						
11-Mar-16	140.58	151.24	4kt	brngy	f-mg	j	M						
11-Mar-16	151.24	155.05	4Mu	brngy	f-mg	j	WM						
11-Mar-16	155.05	168.8	4kt	brngy	f-mg	k	WM						
11-Mar-16	168.8	172.15	4Mu	ltgy-medgy	f-mg	j	M						
11-Mar-16	172.15	181.88	4kt	brngy	f-mg	k	WM						
11-Mar-16	181.88	193.9	4Mu	ltgy-medgy	f-mg	j	M						
11-Mar-16	193.9	194.69	12q	grn	f-mg	j	M						
11-Mar-16	194.69	200.27	4Mu	grngry	fg	j	M						
12-Mar-16	200.27	224.27	2c	medgy	f-mg	c	M						
12-Mar-16	224.27	229.9	2Bi	brngy	f-mg	j	WM						
12-Mar-16	229.9	239.79	2s	ltgy-medgy	f-mg	j	WM						
12-Mar-16	239.79	242.75	2c	ltgy-medgy	f-mg	j	WM						
12-Mar-16	242.75	243.42	2cs	ltgy	f-mg	c	WM						
12-Mar-16	243.42	245.53	2Bi	ltgy-medgy	f-mg	j	WM						
12-Mar-16	245.53	261.56	2s	ltgy-medgy	f-mg	j	WM						
12-Mar-16	261.56	264.05	2Bi	dkgy	f-mg	j	M						
12-Mar-16	264.05	267.89	2s	ltgy	f-mg	j	WM						
12-Mar-16	267.89	276.65	2Bi	dkgy	f-mg	j	WM						
12-Mar-16	276.65	292.95	2s	ltgy-medgy	f-mg	j	WM						
12-Mar-16	292.95	296.48	2Bi	dkgy	f-mg	j	WM						
14-Mar-16	296.48	302.91	2c	ltgy-medgy	v-fg	c	M						
14-Mar-16	302.91	309.99	2s	ltgy-medgy	f-mg	j	W						
14-Mar-16	309.99	325.21	2Mu	ltgy-medgy	f-mg	j	WM						
14-Mar-16	325.21	326.25	2Bi	medgy	f-mg	j	WM						
14-Mar-16	326.25	327.8	2Mu	ltgy-medgy	f-mg	j	WM						
14-Mar-16	327.8	331.7	2Bi	ltgy-dkgy	f-mg	j	M						
14-Mar-16	331.7	333.16	12	blk	f-mg	j	MS						
14-Mar-16	333.16	339.6	2Bi	medgy	f-mg	j	WM						
14-Mar-16	339.6	341.76	12	grngry	f-mg	j	M						
14-Mar-16	341.76	343.69	2Bi	dkgy	f-mg	j	WM						
14-Mar-16	343.69	344.4	12	grngry	f-mg	j	WM						
14-Mar-16	344.4	345.68	11	dkgy	f-mg	j	W						
14-Mar-16	345.68	346.38	12	blk	f-mg	j	MS						
14-Mar-16	346.38	347.12	3f	ltgy	f-mg	f	MS						
14-Mar-16	347.12	348.72	2Bi	medgy	f-mg	j	WM						
14-Mar-16	348.72	349.6	2s	ltgy-medgy	f-mg	j	WM						
14-Mar-16	349.6	352.65	2Bi	medgy-dkgy	f-mg	j	WM						
14-Mar-16	352.65	353.8	12	grngry	f-mg	j	M						
14-Mar-16	353.8	355.71	2Bi	medgy-dkgy	f-mg	j	WM						
14-Mar-16	355.71	356.8	12	grngry	f-mg	j	M						
14-Mar-16	356.8	359.17	2Bi	medgy-dkgy	f-mg	j	M						

DDH W1622 Major Lithology Log

Hole ID: W1622 Project Code: WOC_Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: twilliams
 Collar Depth: 2.5 m Hole Depth: 468 m
 Collar Coordinates: 577767.7mE 5394745mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -46 degrees
 Core Size: NQ
 Drilling Start Date: Feb 28, 2016
 Drilling End Date: Mar 11, 2016
 Drilled by: Boreal Drilling

LoggedDate	Interval (m)		Major Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Texture 3	Intensity	Mineralization	Percentage Mineralization
	From	To											
14-Mar-16	359.17	360.56	3f	ltgy-medgy	f-mg	f	M						
14-Mar-16	360.56	361.31	2Bi	medgy-dkgy	f-mg	j	M						
14-Mar-16	361.31	363.52	3f	medgy	f-mg	f	M						
14-Mar-16	363.52	364.22	12	blk	f-mg	j	M						
14-Mar-16	364.22	374.63	3f	ltgy-medgy	f-mg	f	M						
14-Mar-16	374.63	376.3	3fs	ltgy	f-mg	f	M						
14-Mar-16	376.3	393.82	3f	ltgy-medgy	f-mg	f	M						
14-Mar-16	393.82	398.83	3fs	ltgy-medgy	f-mg	f	M						
14-Mar-16	398.83	406.18	3f	ltgy-medgy	f-mg	f	M						
14-Mar-16	406.18	413.72	3fs	ltgy	f-mg	f	WM						
14-Mar-16	413.72	416.82	3f	ltgy-medgy	f-mg	f	M						
14-Mar-16	416.82	420.26	2s	medgy	f-mg	j	W						
14-Mar-16	420.26	423.97	2Mu	ltgy-medgy	f-mg	j	M						
14-Mar-16	423.97	430.31	4Mu	brngy	f-mg	j	M						
14-Mar-16	430.31	433.23	4q	medgy-dkgy	f-mg	j	WM						
14-Mar-16	433.23	468	4Mu	brngy	f-mg	j	WM						

DDH W1622 Minor Lithology Log

Hole ID: W1622 Project Code: WOC_Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: twilliams
 Collar Depth: 2.5 m Hole Depth: 468 m
 Collar Coordinates: 577767.7mE 5394745mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -46 degrees
 Core Size: NQ
 Drilling Start Date: Feb 28, 2016
 Drilling End Date: Mar 11, 2016
 Drilled by: Boreal Drilling

Interval (m)		Minor Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Major Surrounding Rock Type
From	To								
93.94	94.18	4q		f-mg					4mu
115.93	116.05	16	wht	f-mg					4mu
140.13	140.19	15	ltgy-medgy	f-mg	o	M			4kt
166.38	166.54	12q	grn	f-mg	j	MS			4kt
240.04	240.44	2s	ltgy						2c
241.56	241.81	2s	ltgy						2c
242.4	242.59	2s	ltgy						2cs
291.75	292.03	2Bi	dkgy	f-mg	j	WM			2Bi
293.35	293.47	16	wht	f-mg					2Bi
303.64	303.91	12	blk	f-mg	j	MS			2s
308.18	308.42	12	blk	f-mg	j	MS			2s
336.13	336.31	2s	ltgy	f-mg					2Bi
337.81	338.11	12	blk	f-mg	j	MS			2Bi
361.18	361.31	12	blk	f-mg	j	M			2Bi
372.08	372.38	12	blk	f-mg	j	MS			3fs
402.11	402.35	3fMu	ltgy-medgy	f-mg					3f
415.7	416	3fMu	ltgy-medgy	f-mg	j	WM			3f
434.75	434.94	2s	medgy	f-mg	j	W			4mu

DDH W1622 Alteration Log

Hole ID: W1622 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: williams
Collar Depth: 2.5 m Hole Depth: 468 m
Collar Coordinates: 577767.7mE 5394745mN (UTM NAD83)
Azimuth: 180 degrees Dip: -46 degrees
Core Size: NQ
Drilling Start Date: Feb 28, 2016
Drilling End Date: Mar 11, 2016
Drilled by: Boreal Drilling

Interval (m)		Major Rock Name	Alteration 1	Intensity	Mode	Alteration 2	Intensity	Mode	Alteration 3	Intensity	Mode	AlterationComments
From	To											
12	14.29	4q	Cx	WM	p							
14.7	16.88	4q	Fx	W	p	Cx	W	p	Ax	W	v	
16.88	18.75	4s	Fx	M	p	Ax	WM	k	Cx	W	p	
20.1	22	4q	Fx	WM	p							
22	23.5	4q	Rd	WM	v	Cx	WM	v				
23.5	26	4q	Cx	W	v							
37.73	46	4q	Cx	W	v							
46	47	4q	Rd	W	v							
47	53	4c	Rd	W	v	Cx	WM	v				
53.2	57	4q	Fx	WM	p	Mx	W	k				
57	61	4q	Mx	W	k							
69	87.5	4q	Cx	W	p							
87.5	91	4q	Mx	W	k	Cx	W	k				
91	99.49	4Mu	Mx	WM	k	Cx	M	p	Fx	WM	p	
99.49	102.23	4c	Fx	WM	p	Bx	WM	p	Mx	W	u	
102.23	105.75	4Mu	Mx	WM	p	Fx	WM	u	Ax	WM	k	
105.75	107.65	4c	Fx	WM	p	Bx	WM	p	Mx	W	u	
107.65	128.91	4Mu	Mx	M	p	Fx	WM	u	Ax	WM	k	
128.91	140.58	4kt	Mx	M	u	Ax	M	k	Fx	WM	u	
140.58	151.24	4kt	Bx	M	p	Ax	M	k	Fx	WM	u	
151.24	155.05	4Mu	Mx	WM	p	Ax	WM	u	Fx	WM	u	
155.05	168.8	4kt	Bx	WM	p	Ax	WM	k	Mx	WM	u	
168.8	172.15	4Mu	Mx	M	p	Bx	WM	ps	Ax	WM	u	
172.15	181.88	4kt	Bx	M	p	Ax	M	k	Mx	WM	u	
181.88	193.9	4Mu	Mx	MS	p	Bx	WM	ps	Fx	WM	u	
193.9	194.69	12q	Ax	MS	p							
194.69	200.27	4Mu	Mx	MS	p	Bx	WM	ps	Fx	WM	u	
200.27	224.27	2c	Bx	M	p	Cx	WM	p	Fx	WM	p	
224.27	229.9	2Bi	Bx	WM	m	Cx	WM	p	Mx	W	ps	
229.9	239.79	2s	Fx	M	p	Mx	WM	p	Cx	WM	ps	
239.79	242.75	2c	Bx	M	p	Cx	WM	p	Fx	M	u	
242.75	243.42	2cs	Fx	MS	p	Cx	WM	p	Ax	WM	m	
243.42	245.53	2Bi	Bx	WM	p	Fx	WM	u	Cx	WM	p	
245.53	261.56	2s	Fx	MS	p	Cx	WM	p	Ax	WM	m	
261.56	264.05	2Bi	Bx	M	p	Fx	WM	u	Cx	WM	u	
264.05	267.89	2s	Fx	MS	p	Cx	WM	p	Bx	W	u	
267.89	276.65	2Bi	Bx	M	p	Fx	WM	u	Cx	WM	u	
276.65	292.95	2s	Fx	MS	p	Cx	WM	ps	Bx	WM	u	
292.95	296.48	2Bi	Bx	M	p	Fx	WM	u	Cx	WM	u	
296.48	302.91	2c	Bx	M	ps	Fx	M	ps	Cx	WM	ps	
302.91	309.99	2s	Fx	MS	p	Bx	WM	u	Cx	WM	ps	
309.99	325.21	2Mu	Mx	M	p	Fx	M	ps	Cx	WM	ps	
325.21	326.25	2Bi	Bx	M	p	Cx	WM	p	Fx	M	u	
326.25	327.8	2Mu	Mx	M	p	Fx	M	ps	Cx	WM	ps	
327.8	331.7	2Bi	Bx	M	p	Mx	WM	u	Cx	WM	ps	
331.7	333.16	12	Ax	WM	p	Cx	WM	p				
333.16	339.6	2Bi	Bx	M	p	Mx	WM	ps	Cx	WM	p	
339.6	341.76	12	Ax	M	p	Cx	WM	p				
341.76	343.69	2Bi	Bx	M	p	Cx	WM	p	Fx	WM	u	
343.69	344.4	12	Ax	M	p	Cx	M	p				
344.4	345.68	11	Cx	M	p	Ax	WM	p				
345.68	346.38	12	Ax	M	p	Cx	M	p				
346.38	347.12	3f	Bx	W	p	Mx	W	ps	Fx	W	u	
347.12	348.72	2Bi	Bx	M	p	Cx	WM	ps	Fx	M	u	
348.72	349.6	2s	Fx	M	p	Mx	WM	u	Cx	WM	u	
349.6	352.65	2Bi	Bx	M	p	Mx	WM	u	Cx	W	v	
352.65	353.8	12	Ax	M	p	Cx	M	p				
353.8	355.71	2Bi	Bx	M	p	Mx	WM	u	Cx	W	v	
355.71	356.8	12	Ax	M	p	Cx	M	p				
356.8	359.17	2Bi	Bx	M	p	Mx	WM	u	Cx	W	v	
359.17	360.56	3f	Bx	W	p	Mx	W	ps	Fx	W	u	
360.56	361.31	2Bi	Bx	M	p	Fx	M	u	Cx	WM	u	
361.31	363.52	3f	Bx	W	p	Mx	W	ps	Fx	W	u	
363.52	364.22	12	Ax	M	p	Cx	M	p				
364.22	374.63	3f	Bx	M	p	Mx	WM	u	Fx	M	u	
374.63	376.3	3fs	Fx	M	p	Mx	WM	u	Bx	W	u	
376.3	393.82	3f	Bx	M	p	Mx	WM	ps	Fx	M	u	
393.82	398.83	3fs	Fx	M	p	Mx	WM	u	Bx	W	u	
398.83	406.18	3f	Bx	WM	p	Mx	WM	ps	Fx	W	u	
406.18	413.72	3fs	Fx	M	p	Mx	WM	u	Bx	WM	u	
413.72	416.82	3f	Fx	WM	p	Mx	WM	ps	Bx	WM	ps	
416.82	420.26	2s	Fx	M	p	Bx	WM	p	Mx	WM	u	
420.26	423.97	2Mu	Mx	MS	p	Bx	WM	ps	Cx	WM	ps	
423.97	430.61	4Mu	Mx	MS	p	Bx	WM	p	Fx	WM	u	

DDH W1622 Alteration Log

Hole ID: W1622 Project Code: WOC_Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: twilliams
 Collar Depth: 2.5 m Hole Depth: 468 m
 Collar Coordinates: 577767.7mE 5394745mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -46 degrees
 Core Size: NQ
 Drilling Start Date: Feb 28, 2016
 Drilling End Date: Mar 11, 2016
 Drilled by: Boreal Drilling

Interval (m)		Major Rock Name	Alteration 1	Intensity	Mode	Alteration 2	Intensity	Mode	Alteration 3	Intensity	Mode	AlterationComments
From	To											
430.61	433.21	4q	Bx	M	p	Cx	WM	m	Fx	WM	u	
433.23	468	4Mu	Mx	MS	p	Bx	WM	p	Fx	WM	u	

DDH W1622 Mineralization Log

Hole ID: W1622 Project Code: WOC Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: twilliams
 Collar Depth: 2.5 m Hole Depth: 468 m
 Collar Coordinates: 577767.7mE 5394745mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -46 degrees
 Core Size: NQ
 Drilling Start Date: Feb 28, 2016
 Drilling End Date: Mar 11, 2016
 Drilled by: Boreal Drilling

Interval (m)		Ore Mineral 1	Mineralization Mode	Mineralization Percentage	Ore Mineral 2	Mineralization Percentage	Major Surrounding Rock Type	Comments
From	To							
12	14.29	Py	d	0.5			4q	
14.7	16.88	Py	d	0.5			4q	
16.88	18.75	Py	d	0.5			4s	
57	58	Py	b	0.5			4q	
66	69	Py	d	0.5			4q	
168.8	172.15	Py	d	0.1			4Mu	
181.88	193.9	Py	d	0.1			4Mu	
200.27	210	Py	k	0.3			2c	
210	224.27	Py	d	1			2c	
224.27	229.9	Py	d	0.1			2Bi	
229.9	239.79	Py	d	0.1			2s	
239.79	242.75	Py	d	0.5			2c	
242.75	243.42	Py	d	0.5			2cs	
243.42	245.53	Py	d	0.5			2Bi	
245.53	261.56	Py	d	0.5	Mo	0.1	2s	
261.56	264.05	Py	d	1			2Bi	
264.05	267.89	Py	d	0.75	Mo	0.05	2s	
267.89	276.65	Py	d	1			2Bi	
276.65	292.95	Py	d	0.75	Mo	0.3	2s	
292.95	296.48	Py	d	1			2Bi	
296.48	302.91	Py	d	0.85	Mo	0.5	2c	
302.91	309.99	Py	d	0.75	Mo	0.75	2s	
309.99	325.21	Py	d	0.5	Mo	0.5	2Mu	
325.21	326.25	Py	d	1			2Bi	
326.25	327.8	Py	d	0.5	Mo	0.1	2Mu	
327.8	331.7	Py	d	0.5			2Bi	
331.7	333.16	Py	d	0.5			12	
333.16	339.6	Py	d	1	Mo	0.1	2Bi	
339.6	341.76	Py	d	0.5			12	
341.76	343.69	Py	d	0.5			2Bi	
343.69	344.4	Py	d	0.5			12	
344.4	345.68	Py	d	0.5			11	
345.68	346.38	Py	d	1			12	
346.38	347.12	Py	d	0.5			3f	
347.12	348.72	Py	d	1	Mo	0.5	2Bi	
348.72	349.6	Py	d	0.5			2s	
349.6	352.65	Py	d	0.25			2Bi	
352.65	353.8	Py	d	0.1			12	
353.8	355.71	Py	d	0.25			2Bi	
355.71	356.8	Py	d	0.1			12	
356.8	359.17	Py	d	0.75			2Bi	
359.17	360.56	Py	d	0.5			3f	
360.56	361.31	Py	d	1			2Bi	
361.31	363.52	Py	d	1			3f	
363.52	364.22	Py	d	0.1			12	
364.22	374.63	Py	d	1			3f	
374.63	376.3	Py	d	1	Mo	0.2	3fs	

DDH W1622 Mineralization Log

Hole ID: W1622 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: twilliams
Collar Depth: 2.5 m Hole Depth: 468 m
Collar Coordinates: 577767.7mE 5394745mN (UTM NAD83)
Azimuth: 180 degrees Dip: -46 degrees
Core Size: NQ
Drilling Start Date: Feb 28, 2016
Drilling End Date: Mar 11, 2016
Drilled by: Boreal Drilling

Interval (m)		Ore Mineral 1	Mineralization Mode	Mineralization Percentage	Ore Mineral 2	Mineralization Percentage	Major Surrounding Rock Type	Comments
From	To							
376.3	393.82	Py	d	1	Mo	0.1	3f	
393.82	398.83	Py	d	1	Mo	0.2	3fs	
398.83	406.18	Py	d	1			3f	
406.18	413.72	Py	d	1	Mo	0.4	3fs	
413.72	416.82	Py	d	1	Mo	0.5	3f	
416.82	420.26	Py	d	1	Mo	0.3	2s	
420.26	423.97	Py	d	0.75			2Mu	
423.97	430.61	Py	d	0.75			4Mu	
430.61	433.23	Py	d	0.75			4q	
433.23	468	Py	d	0.5			4Mu	

DDH W1622 Structural Log

Hole ID: W1622 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: twilliams
Collar Depth: 2.5 m Hole Depth: 468 m
Collar Coordinates: 577767.7mE 5394745mN (UTM NAD83)
Azimuth: 180 degrees Dip: -46 degrees
Core Size: NQ
Drilling Start Date: Feb 28, 2016
Drilling End Date: Mar 11, 2016
Drilled by: Boreal Drilling

Depth	Major Surrounding Rock Type	Structure Type	Structure Subtype	Structure Infill	Alpha Angle	Gange Mineral	Roughness	Thickness (mm)	Structure Comments
5.36	4q	BD			64				
14.29	16	CT			42				
18.75	14	CT			22				
20.1	4q	CT			22				
29.92	4q	FO			63				
37.18	14	CT			33				
37.73	4q	CT			32				
49.33	4c	FO			69				
53.1	4	FT	gou	S1	49				20cm wide green-grey fault gouge
59.39	4q	FO			66				
67.85	4q	FO			66				
76.95	4q	FO			66				
92.81	4q	CT			66				
103.27	4mu	FT	fau	S3	60		Smooth		
116	4mu	VN	fgr		90	Cb		5	
140.19	4kt	CT		S3	55		Smooth		
164.55	4kt	FT	gou	S2	55		Smooth		
166.38	4kt	FT	gou	S2	65		Smooth		
169.64	4mu	FT	gou	S3	60		Smooth		
169.74	4mu	FT	gou	S3	60		Smooth		
171.52	4kt	FT	gou	S2	61		Smooth		
184.5	4mu	FR		S3	10		Smooth		fracture/joint runs paralell to core axis 30cm in either dirrection
188.74	4mu	FT	gou	S3	70		Smooth		
190.23	12q	FT	gou	S3	65		Smooth		
196.54	4mu	FT	gou	S2	70		Smooth		
197.11	4mu	FT	gou	S2	75		Smooth		
235.57	2Bi	FT	gou	S2	65		Smooth		
236.3	2s	FT	gou	S3	65		Smooth		
236.64	2s	FT	gou	S3	65		Smooth		
240.8	2c	FT	gou	S3	48		Smooth		
259.3	2c	FT	gou	S3	48		Smooth		
261.1	2Bi	FT	gou	S2	70		Smooth		
261.15	2Bi	FT	gou	S3	70		Smooth		
261.56	2Bi	CT		S3	45		Smooth		
264.17	2s	FT		S3	60		Smooth		
264.3	2s	FT	gou	S3	60		Smooth		
264.55	2s	FT	gou	S3	60		Smooth		
266.39	2s	FT	gou	S3	60		Smooth		
267.15	2s	FT	gou	S3	65		Smooth		
274.1	2Bi	VN	stw		60	Ca		30	
281.35	2s	FT	gou	S3	60		Smooth		
285.5	2s	FT	gou	S3	30		Smooth		
297.6	2Bi	FT	gou	S2	55		Smooth		
303.66	2s	FT	gou	S3	61		Smooth		
308.18	2s	CT		S3	67		Smooth		
308.27	2s	FT	gou	S3	62		Smooth		
308.42	2s	CT		S3	70		Smooth		
323.75	2Bi	FT	gou	S2	75		Smooth		
323.89	2Mu	FT	gou	S2	71		Smooth		
331.75	12	FT	gou	S2	45		Smooth		
331.8	12	FT	gou	S2	50		Smooth		
332.1	12	FT	gou	S2	45		Smooth		
332.12	12	FT	gou	S2	43		Smooth		
333.1	12	FT	gou	S2	46		Smooth		
333.13	12	FT	gou	S2	46		Smooth		
337.8	2Bi	FT	gou	S3	57		Smooth		
340	12	FR		S3	10		Smooth		runs paralell to core 1m down dip
345.68	11	FT	gou	S3	51		Smooth		
349.07	2Bi	FT	gou	S3	45		Smooth		
351.83	2Bi	FT	gou	S3	49		Smooth		
361.29	2Bi	CT		S3	48		Smooth		
365.84	3f	FT	gou	S3	35		Smooth		
375.83	3f	FR		S3	15		Smooth		joint runs 20cm in either direction.
408.33	3fs	FR		N	5		Smooth		fracture runs paralell to core for 30cm in either direction.
416.61	3f	FT	gou	S2	70		Smooth		
417.45	2s	FT	gou	S2	76		Smooth		

DDH W1622 Geotechnical Log

Hole ID: W1622 Project Code: WOC_Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: twilliams
 Collar Depth: 2.5 m Hole Depth: 468 m
 Collar Coordinates: 577767.7mE 5394745mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -46 degrees
 Core Size: NQ
 Drilling Start Date: Feb 28, 2016
 Drilling End Date: Mar 11, 2016
 Drilled by: Boreal Drilling

Interval (m)		Total Recovery (m)	RQD Measurement (m)	Rock Strength	Weathering	Number of Discontinuity Sets	Discontinuity Set 1					Discontinuity Set 2					Discontinuity Set 3					Comments			
From	To						Alpha Angle	Frequency	Infill	Length	Roughness	Type	Alpha Angle	Frequency	Infill	Length	Roughness	Type	Alpha Angle	Frequency	Infill		Length	Roughness	Type
2.5	6	3.5	1.68	R2	W1	J1.5	69	20	N	3	Smooth	FO													
6	9	2.94	2.13	R2	W1	J1.5	64	9	N	3	Smooth	FO													
9	12	2.83	2.05	R2	W1	J1.5	64	6	N	3	S_rough	FO													
12	15	2.92	1.6	R2	W1	J1.5	60	8	N	3	Smooth	FO													
15	18	2.99	2.28	R2	W1	J1.5	53	5	N	3	S_rough	FR													
18	21	2.9	2.13	R2	W1	J1.5	66	7	N	3	Smooth	FO													
21	24	3	2.45	R2	W1	J1.5	66	12	N	3	Smooth	FO													
24	27	3.15	2.87	R2	W1	J1.5	63	9	N	3	S_rough	FO													
27	30	2.94	2.78	R2	W1	J1.5	65	7	N	3	Smooth	FO													
30	33	3	2.19	R2	W1	J5																			
33	36	2.95	2.77	R2	W1	J1.5	62	4	N	3	S_rough	FO													
36	39	2.93	2.37	R2	W1	J1.5	65	8	N	3	S_rough	FO													
39	42	2.92	2.13	R2	W1	J1.5	64	6	N	3	Smooth	FO													
42	45	2.99	2.26	R2	W1	J1.5	38	2	N	3	Smooth	FR													
45	48	2.77	1.71	R2	W1	J1.5	65	6	N	3	S_rough	FO													
48	51	2.69	1.01	R2	W1	J5																			
51	54	2.9	1.24	R2	W1	J5																			
54	57	2.7	2.48	R2	W1	J1.5	66	7	N	3	Smooth	FO													
57	60	2.89	2.78	R2	W1	J1.5	66	5	N	3	Smooth	FO													
60	63	2.99	2.97	R2	W1	J1.5	66	3	N	3	S_rough	FO													
63	66	3	1.94	R2	W1	J1.5	68	5	N	3	S_rough	FO													
66	69	2.89	2.63	R2	W1	J1.5	66	2	N	3	S_rough	FO													
69	72	2.83	2.08	R2	W1	J1.5	55	6	N	3	Smooth	FO													
72	75	3	2.88	R2	W1	J1.5	67	5	N	3	Smooth	FO													
75	78	3.27	2.8	R3	W1	J1.5	69	10	N	3	Smooth	FO													
78	81	2.91	2.46	R3	W1	J1.5	63	8	N	3	Smooth	FO													
81	84	2.97	2.61	R3	W1	J1.5	62	8	N	3	Smooth	FO													
84	87	2.99	2.85	R3	W1	J1.5	67	11	N	3	Smooth	FO													
87	90	3	2.83	R3	W1	J1	66	10	N	3	S_rough	FO													
90	93	2.95	2.95	R3	W1	J1	64	6	N	3	Smooth	FO													
93	96	2.99	2.11	R3	W1	J1.5	66	17	N	3	Smooth	FO													
96	99	2.98	2.89	R3	W1	J1.5	70	4	S3	3	Smooth	FO	45	1	N	3	Smooth	FR							
99	102	3.04	3.04	R3	W1	J2	70	3	S3	3	Smooth	FO	75	2	S3	3	Smooth	FR							
102	105	2.96	2.76	R3	W1	J3	60	1	S2	3	Smooth	F	60	6	S3	3	Smooth	FO	38	2	N	3	Smooth	J	
105	108	3.02	2.95	R3	W1	J3	35	4	N	3	Smooth	J	67	3	S3	3	Smooth	FO	51	3	N	3	Smooth	FR	
108	111	2.96	2.9	R3	W1	J1	63	15	S3	3	Smooth	FO													
111	114	3	3	R3	W1	J1	65	3	N	3	Smooth	FO													
114	117	2.93	2.93	R3	W1	J1.5	70	4	S3	3	Smooth	FO	90	1	N	3	Smooth	V							
117	120	2.99	2.9	R3	W1	J2	34	1	N	3	Smooth	FR	15	1	N	3	Smooth	FR	70	3	S3	3	Smooth	FO	
120	123	3	2.98	R3	W1	J1	70	6	S3	3	Smooth	FO													
123	126	2.9	2.83	R3	W1	J2	55	4	N	3	Smooth	FR	68	3	S3	3	Smooth	FO							
126	129	2.96	2.96	R3	W1	J2	65	4	S3	3	Smooth	FO	45	2	N	3	Smooth	FR							
129	132	2.9	2.87	R3	W1	J2	30	2	N	3	Smooth	FR	65	2	S3	3	Smooth	FO							
132	135	3.04	3.04	R3	W1	J2	68	7	S3	3	Smooth	FO	39	2	N	3	Smooth	FR							
135	138	2.96	2.93	R3	W1	J1.5	65	4	S3	3	Smooth	FO	40	1	N	3	Smooth	FR							
138	141	2.93	2.84	R3	W1	J3	57	5	S3	3	Smooth	FO	30	2	N	3	Smooth	J	45	1	N	3	Smooth	CO	
141	144	2.86	2.86	R3	W1	J1	65	6	S3	3	Smooth	FO													
144	147	3.05	3.02	R3	W1	J1.5	70	7	S3	3	Smooth	FO	35	1	N	3	Smooth	FR							
147	150	3.07	3.07	R3	W1	J2	60	2	S3	3	Smooth	FO	38	3	N	3	Smooth	J							
150	153	2.92	2.92	R3	W1	J1	70	5	S3	3	Smooth	FO													
153	156	2.72	2.6	R3	W1	J1	60	6	S3	3	Smooth	FO													
156	159	3.03	2.94	R3	W1	J2	60	5	S3	3	Smooth	FO	35	2	N	3	Smooth	FR							
159	162	3.09	3.09	R3	W1	J1.5	25	1	N	3	Smooth	FR	48	1	S3	3	Smooth	FR	60	4	S3	3	Smooth	FO	
162	165	2.84	2.8	R3	W1	J1.5	65	4	S3	3	Smooth	FO	55	1	S2	3	Smooth	F							
165	168	2.89	2.79	R3	W1	J2.5	45	1	S2	3	Smooth	F	70	3	S3	3	Smooth	FO	25	1	S3	3	Smooth	FR	
168	171	3	2.77	R3	W1	J2	65	8	S3	3	Smooth	FO	60	2	S2	3	Smooth	F							
171	174	2.92	2.83	R3	W1	J1.5	70	11	S3	3	Smooth	FO	30	1	N	3	Smooth	FR	61	1	S2	3	Smooth	F	
174	177	2.82	2.69	R3	W1	J1.5	40	2	N	3	Smooth	FR	70	6	S3	3	Smooth	FO							

DDH W1622 Geotechnical Log

Hole ID: W1622 Project Code: WOC_Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: twilliams
 Collar Depth: 2.5 m Hole Depth: 468 m
 Collar Coordinates: 577767.7mE 5394745mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -46 degrees
 Core Size: NQ
 Drilling Start Date: Feb 28, 2016
 Drilling End Date: Mar 11, 2016
 Drilled by: Boreal Drilling

Interval (m)		Total Recovery (m)	RQD Measurement (m)	Rock Strength	Weathering	Number of Discontinuity Sets	Discontinuity Set 1						Discontinuity Set 2						Discontinuity Set 3						Comments
From	To						Alpha Angle	Frequency	Infill	Length	Roughness	Type	Alpha Angle	Frequency	Infill	Length	Roughness	Type	Alpha Angle	Frequency	Infill	Length	Roughness	Type	
351	354	3.05	2	R3	W1	J3	61	11	S3	3	Smooth	FO	49	1	S3	3	Smooth	F	45	3	S3	3	Smooth	FO	
354	357	3.02	2.88	R3	W1	J2	38	2	S3	3	Smooth	FR	75	5	S3	3	Smooth	FO							
357	360	3.05	2.84	R3	W1	J2	50	4	S3	3	Smooth	J	34	1	S3	3	Smooth	FR							
360	363	3	2.43	R3	W1	J2.5	48	1	S3	3	Smooth	CO	45	2	S3	3	Smooth	FO	65	3	S3	3	Smooth	FO	
363	366	3	2.42	R3	W1	J3	35	1	S3	3	Smooth	F	60	7	S3	3	Smooth	FO	30	2	S3	3	Smooth	FR	
366	369	2.92	2.82	R3	W1	J1.5	30	1	S3	3	Smooth	FR	55	2	S3	3	Smooth	FO							
369	372	2.99	2.99	R3	W1	J2	65	8	S3	3	Smooth	FO	45	2	N	3	Smooth	FR							
372	375	3.05	2.99	R3	W1	J1.5	70	6	S3	3	Smooth	FO				3									
375	378	3.03	2.43	R3	W1	J2	15	1	S3	3	Smooth	J	60	9	S3	3	Smooth	FO							
378	381	2.95	2.74	R3	W1	J1.5	65	6	S3	3	Smooth	FO	30	1	N	3	Smooth	FR							
381	384	3.02	3.02	R3	W1	J2	58	1	S3	3	Smooth	FR	70	2	S3	3	Smooth	FO							
384	387	3.01	2.77	R3	W1	J2	70	3	S3	3	Smooth	FO	43	1	S3	3	Smooth	FR							
387	390	2.92	2.92	R3	W1	J1	70	4	S3	3	Smooth	FO													
390	393	3.02	3.02	R3	W1	J1	70	5	S3	3	Smooth	FO													
393	396	2.95	2.95	R3	W1	J1	70	4	S3	3	Smooth	FO													
396	399	2.99	2.99	R3	W1	J1.5	45	1	S3	3	Smooth	FR	70	6	S3	3	Smooth	FO							
399	402	3.03	3.03	R3	W1	J2	43	2	S2	3	Smooth	FR	65	4	S3	3	Smooth	FO							
402	405	3.06	3.06	R3	W1	J1	72	5	S3	3	Smooth	FO													
405	408	2.93	2.84	R3	W1	J1	75	8	S3	3	Smooth	FO													
408	411	3.08	3.01	R3	W1	J3	5	1	N	3	Smooth	J	70	8	S3	3	Smooth	FO	1	22	N	3	Smooth	FR	
411	414	3.07	3.03	R3	W1	J1	70	6	S3	3	Smooth	FO													
414	417	3	2.9	R3	W1	J1.5	70	11	S3	3	Smooth	FO	70	1	S2	3	Smooth	F							
417	420	2.99	2.96	R3	W1	J3	75	9	S2	3	Smooth	FO	38	1	N	3	Smooth	FR	76	1	S2	3	Smooth	F	
420	423	2.98	2.98	R3	W1	J2	70	6	S3	3	Smooth	FO	45	2	N	3	Smooth	FR							
423	426	2.97	2.97	R3	W1	J2	16	1	S3	3	Smooth	FR	70	5	S3	3	Smooth	FO							
426	429	2.94	2.88	R3	W1	J2	25	3	N	3	Smooth	FR	65	4	S3	3	Smooth	FO							
429	432	2.95	2.95	R3	W1	J1	72	6	S3	3	Smooth	FO													
432	435	3.05	3.05	R3	W1	J2	70	6	S3	3	Smooth	FO	50	2	N	3	Smooth	FR							
435	438	2.98	2.98	R3	W1	J1	65	11	S3	3	Smooth	FO													
438	441	3.05	3.05	R3	W1	J1	70	7	S3	3	Smooth	FO													
441	444	2.89	2.89	R3	W1	J1.5	70	7	S3	3	Smooth	FO	35	1	S3	3	Smooth	FR							
444	447	2.94	2.82	R3	W1	J2	70	8	S3	3	Smooth	FO	35	1	N	3	Smooth	FR							
447	450	3	3	R3	W1	J2	60	5	S3	3	Smooth	FO	35	2	N	3	Smooth	FR							
450	453	2.93	2.82	R3	W1	J2	65	11	S3	3	Smooth	FO	30	1	N	3	Smooth	FR							
453	456	2.95	2.91	R3	W1	J2	65	6	S3	3	Smooth	FO	39	2	N	3	Smooth	FR							
456	459	3	3	R3	W1	J2	60	7	S3	3	Smooth	FO	39	2	N	3	Smooth	FR							
459	462	3	3	R3	W1	J2	65	9	S3	3	Smooth	FO	50	2	N	3	Smooth	FR							
462	465	2.95	2.87	R3	W1	J2	65	5	S3	3	Smooth	FO	10	1	N	3	Smooth	FR							
465	468	2.87	2.76	R3	W1	J2	65	11	S3	3	Smooth	FO	20	1	N	3	Smooth	FR							

Appendix F

DDH W1623 Drill Logs

DDH W1623 Major Lithology Log

Hole ID: W1623 Project Code: WOC_Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: mmcleod
Collar Depth: 6 m Hole Depth: 447 m
Collar Coordinates: 577647.9mE 5394756.9mN (UTM NAD83)
Azimuth: 179 degrees Dip: -45.9 degrees
Core Size: NQ
Drilling Start Date: 29-Feb-2016
Drilling End Date: 11-Mar-2016
Drilled by: Boreal Drilling

LoggedDate	Interval (m)		Major Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Texture 3	Intensity	Mineralization	Percentage Mineralization
	From	To											
10-Mar-16	0	6	0										
10-Mar-16	6	16.73	4q	dkgy		c	WM	q		k	MS		
10-Mar-16	16.73	17.17	12	blk	f-mg	n	MS						
10-Mar-16	17.17	22.17	4q	dkgy	fg	q		k	WM				
10-Mar-16	22.17	26.34	4q	dkgy	f-mg	k	M						
10-Mar-16	26.34	29.16	4s	ltgy-medgy	fg	k	WM						
10-Mar-16	29.16	42	4q	dkgy	fg	c	WM	k	WM	q			
10-Mar-16	42	45.96	4q	dkgy	f-mg	k	WM						
10-Mar-16	45.96	51.36	4q	dkgy	fg	c	WM	k	W				
10-Mar-16	51.36	57.06	4c	ltgy-dkgy	f-mg	c	M	k	WM				
10-Mar-16	57.06	60	4q	dkgy	fg	k	W	q					
10-Mar-16	60	60.56	4c	ltgy-dkgy	f-mg	c	MS						
10-Mar-16	60.56	65.15	4q	dkgy	fg	k	WM						
10-Mar-16	65.15	65.76	4c	ltgy-dkgy	f-mg	c	MS						
10-Mar-16	65.76	66.39	4s	ltgy	fg								
10-Mar-16	66.39	69.41	4c	ltgy-dkgy	f-mg	c	M						
10-Mar-16	69.41	91.48	4q	dkgy	fg	c	W	PS	WM	q			
10-Mar-16	91.48	102.35	4q	dkgy	fg	PS	M						
11-Mar-16	102.35	102.87	4q	dkgy	fg	q							
11-Mar-16	102.87	104.53	4q	ltgy-dkgy	fg	k	M						
11-Mar-16	104.53	105.34	4s	pnk	fg	k	WM						
11-Mar-16	105.34	110.57	4FT	brngy	fg	k	MS						
11-Mar-16	110.57	110.87	16	wht	cg								
11-Mar-16	110.87	111.37	4FT	brngy	fg								
11-Mar-16	111.37	114.25	4c	dkgy	f-mg	c	M						
11-Mar-16	114.25	124.37	4Mu	ltgy-dkgy	f-mg	k	M						
11-Mar-16	124.37	127.52	4c	dkgy	f-mg	c	M						
11-Mar-16	127.52	137.26	4Mu	ltgy-dkgy	fg	k	M						
11-Mar-16	137.26	139.53	4c	blugy	f-mg	c	M						
11-Mar-16	139.53	140.54	14	blk	f-mg								
11-Mar-16	140.54	141.88	4c	blugy	f-mg	c	MS						
11-Mar-16	141.88	142.17	14	blk	f-mg								
11-Mar-16	142.17	142.45	4c	blugy	f-mg	c	MS						
11-Mar-16	142.45	145.48	4q	grngry	fg	k	WM						
11-Mar-16	145.48	146.42	4s	grngry	fg	k	M						
11-Mar-16	146.42	151.51	4q	ltgy-dkgy	fg	PS	WM	k	WM				
11-Mar-16	151.51	160.15	4kt	ltgy-dkgy	fg	k	MS	t	M				
11-Mar-16	160.15	177.75	4Mu	ltgy-dkgy	fg	k	MS	t	WM	PS	WM		
11-Mar-16	177.75	178.48	12q	grn	f-mg								
11-Mar-16	178.48	187.1	4Mu	ltgy-dkgy	fg	k	MS	PS	WM				
11-Mar-16	187.1	188.45	4q	dkgy	fg	PS	WM						
11-Mar-16	188.45	189.49	4q	grngry	fg								
11-Mar-16	189.49	191.45	4Mu	ltgy-dkgy	fg	k	MS						
11-Mar-16	191.45	192.74	4Am	grn	f-mg								
11-Mar-16	192.74	199.72	4Mu	ltgy-dkgy	fg	k	MS						
15-Mar-16	199.72	213.72	4c	ltgy-dkgy	f-mg	c	MS	k	MS				
15-Mar-16	213.72	216.39	4s	ltgy-medgy	fg	c	WM	k	M				
15-Mar-16	216.39	219.16	4c	ltgy-dkgy	f-mg	c	M	k	M				
15-Mar-16	219.16	222.35	4q	dkgy	fg	k	WM						
15-Mar-16	222.35	225.2	4c	ltgy-dkgy	f-mg	c	MS	k	WM				
15-Mar-16	225.2	225.71	4q	dkgy	fg	q							
15-Mar-16	225.71	231.73	4c	ltgy-dkgy	f-mg	c	MS	k	WM				
15-Mar-16	231.73	232.07	14	blk	f-mg								
15-Mar-16	232.07	235.78	4c	ltgy-dkgy	f-mg	c	M	k	WM				
15-Mar-16	235.78	240	4q	dkgy	fg	c	W						
15-Mar-16	240	241.13	2s	medgy	fg								
15-Mar-16	241.13	242.6	12	blk	f-mg	n	MS						
15-Mar-16	242.6	242.97	2Bi	dkgy	f-mg	c	W						
15-Mar-16	242.97	243.54	12	blk	f-mg	n	MS						
15-Mar-16	243.54	254.3	2Bi	ltgy-dkgy	f-mg	c	WM	k	M				
15-Mar-16	254.3	258.25	2Bi	dkgy	fg	k	WM	c	WM				
15-Mar-16	258.25	262.95	2s	medgy	fg	c	WM						

DDH W1623 Major Lithology Log

15-Mar-16	262.95	263.46	2Bi	dkgy	fg	k	WM	c	W				
15-Mar-16	263.46	269.12	2s	ltgy-medgy	fg	c	W						
15-Mar-16	269.12	273.51	2cs	medgy	f-mg	c	MS						
15-Mar-16	273.51	275.8	2cs	ltgy-medgy	f-mg	c	MS						
15-Mar-16	275.8	279.89	2cs	ltgy-dkgy	f-mg	c	M						
15-Mar-16	279.89	280.15	14	blk	f-mg								
15-Mar-16	280.15	281.18	2cs	dkgy	f-mg	k	WM						
15-Mar-16	281.18	282.68	2Bi	dkgy	fg	k	WM						
15-Mar-16	282.68	285.19	2cs	ltgy-medgy	f-mg								
15-Mar-16	285.19	286	14	blk	f-mg								
15-Mar-16	286	288.62	2s	medgy	f-mg	c	W						
16-Mar-16	288.62	295.36	2Bi	dkgy	fg	k	M						
16-Mar-16	295.36	298.53	2s	ltgy-medgy	f-mg	c	W	k	W				
16-Mar-16	298.53	299.37	2Bi	medgy-dkgy	f-mg	c	W						
16-Mar-16	299.37	300.87	2c	medgy-dkgy	f-mg	c	MS						
16-Mar-16	300.87	302.7	2cs	ltgy-medgy	f-mg	c	MS						
16-Mar-16	302.7	304.64	2c	medgy-dkgy	v-mg	c	M						
16-Mar-16	304.64	305.49	2cs	blugy	f-mg	c	MS						
16-Mar-16	305.49	308.34	2Bi	medgy	fg	c	W	j	MS				
16-Mar-16	308.34	309.89	2Bi	dkgy	fg	k	WM						
16-Mar-16	309.89	311.39	2cs	medgy	f-mg	c	WM						
16-Mar-16	311.39	312.54	2s	medgy	fg	c	W						
16-Mar-16	312.54	313.03	12	blk	f-mg	n	MS						
16-Mar-16	313.03	314.56	2Bi	dkgy	fg								
16-Mar-16	314.56	318.19	2s	medgy	f-mg	c	W						
16-Mar-16	318.19	322.3	2FT	medgy-dkgy	f-mg	c	MS						
16-Mar-16	322.3	324.77	14	blk	f-mg								
16-Mar-16	324.77	325.66	2cs	blugy	f-mg	c	MS						
16-Mar-16	325.66	328.45	14	blk	f-mg								
16-Mar-16	328.45	331	2cs	medgy	f-mg	c	MS						
16-Mar-16	331	333.27	2s	medgy	fg								
16-Mar-16	333.27	333.63	12	blk	f-mg	n	MS						
16-Mar-16	333.63	337.17	2Bi	medgy-dkgy	f-mg								
16-Mar-16	337.17	338.3	2cs	medgy	f-mg	c	MS						
16-Mar-16	338.3	338.5	14	blk	f-mg								
16-Mar-16	338.5	346.91	2cs	medgy	f-mg	c	S						
17-Mar-16	346.91	350	2Bi	medgy-dkgy	f-mg	c	W	k	W				
17-Mar-16	350	350.45	2c	ltgy-dkgy	f-mg	c	M						
17-Mar-16	350.45	351.16	2Bi	ltgy-dkgy	fg	c	W						
17-Mar-16	351.16	354.46	3f	medgy	f-mg	e	WM	f	S				
17-Mar-16	354.46	372.82	2Bi	dkgy	fg	c	WM						
17-Mar-16	372.82	392	3f	medgy	f-mg	e	WM	f	S				
17-Mar-16	392	392.84	3fMu	ltgy-medgy	f-mg	e	WM	f	MS				
17-Mar-16	392.84	395.8	3f	medgy	f-mg	f	MS	e	WM				
17-Mar-16	395.8	396.19	12	blk	f-mg	n	S						
17-Mar-16	396.19	401.45	3fMu	medgy	f-mg	e	WM	f	MS				
17-Mar-16	401.45	402.33	2Bi	medgy	fg	k	WM	c	W				
17-Mar-16	402.33	402.77	12	blk	f-mg	n	MS						
17-Mar-16	402.77	405.66	3c	ltgy-medgy	f-mg	c	M	f	M				
17-Mar-16	405.66	413.81	2cs	medgy	f-mg	c	MS						
17-Mar-16	413.81	415.08	2c	ltgy-dkgy	f-mg	c	M						
17-Mar-16	415.08	418.1	2Bi	dkgy	fg	k	W						
17-Mar-16	418.1	420.12	2s	ltgy-medgy	fg	c	W						
17-Mar-16	420.12	420.76	2Bi	dkgy	fg	c	WM						
17-Mar-16	420.76	423.32	2s	medgy	fg	c	WM	k	WM				
17-Mar-16	423.32	425	2FT	medgy	f-mg								
17-Mar-16	425	425.58	2s	medgy	fg								
17-Mar-16	425.58	425.91	2cs	medgy	f-mg	c	MS						
17-Mar-16	425.91	434.29	2s	medgy	fg								
18-Mar-16	434.29	445.65	4Mu	ltgy-medgy	fg	k	M	PS	W	t	W		
18-Mar-16	445.65	446.35	4Am	grn	f-mg								
18-Mar-16	446.35	447	4Mu	ltgy-dkgy	fg	k	MS						

DDH W1623 Minor Lithology Log

Hole ID: W1623 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: mmcleod
Collar Depth: 6 m Hole Depth: 447 m
Collar Coordinates: 577647.9mE 5394756.9mN (UTM NAD83)
Azimuth: 179 degrees Dip: -45.9 degrees
Core Size: NQ
Drilling Start Date: 29-Feb-2016
Drilling End Date: 11-Mar-2016
Drilled by: Boreal Drilling

Interval (m)		Minor Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Major Surrounding Rock Type
From	To								
9.14	9.25	16	wht	cg					16
16.61	16.73	16	wht	cg					16
17.23	17.3	16	wht	cg					16
17.46	17.48	12	blk	f-mg	n	MS			12
18.57	18.67	16	wht	cg					16
21.02	21.14	16	wht	cg					16
25.36	25.43	16	wht	cg					16
40.14	40.54	4c							4
41.6	41.84	16	wht	cg					16
43.61	43.65	4s							4
67.11	67.36	4s							4
74.14	74.2	16	wht	cg					16
76.23	76.31	16	wht	cg					16
83.52	83.62	16	wht	cg					16
96.97	97	12	grn	f-mg					12
98.06	98.18	12	grn	f-mg	n	MS			12
105.17	105.34	16	wht	cg					16
106.05	106.12	15							15
108.39	108.56	15							15
111.1	111.21	16	wht	cg					16
120.4	120.66	16	wht	cg					16
121.22	121.38	15	pnk						15
122.37	122.49	9f	dkgy	f-mg	f	S			9
123.01	123.08	16	wht	cg					16
131.52	131.73	16	wht	cg					16
138.09	138.21	14	blk						14
140.23	140.54	4c							4
140.54	140.74	14							14
153.64	153.72	16	wht	cg					16
170.87	170.94	16	wht	cg					16
186.51	186.61	16	wht	cg					16
186.86	187.1	16	wht	cg					16
215.51	215.73	11	ltgy	fg					11
222.05	222.1	12	blk	f-mg	n	MS			12
225.75	225.78	12	blk	f-mg	n	MS			12
231.45	231.49	12	blk	f-mg	n	MS			12
236.67	236.79	12	blk	f-mg	n	MS			12
238.67	238.92	12	blk	f-mg	n	MS			12
241.51	241.66	16	wht	cg					16
242.9	243.1	16	wht	cg					16
244.64	244.74	12	blk	f-mg	n	MS			12
246.24	246.34	16	wht	cg					16
261.28	261.34	11	dkgy	fg					11
285.19	285.41	2cs	ltgy-medgy						2
295.36	295.47	16	wht	cg					16
304.68	304.73	12	blk	f-mg	n	MS			12
318.78	318.83	12	blk	f-mg	n	MS			12
324.77	324.99	14	blk	f-mg					14
325.37	325.66	14	blk	f-mg					14
337.24	337.4	12	blk	f-mg	n	MS			12
337.91	338.07	12	blk	f-mg	n	MS			12
339.9	339.99	12	blk	f-mg	n	M			12
351.16	351.26	3sPy							3
354.46	354.53	16	wht	cg					16
370.49	370.64	16	wht	cg					16
375.7	375.79	16	wht	cg					16
376	376.06	16	wht	cg					16
376.73	376.78	16	wht	cg					16
380.58	380.79	12	blk	f-mg	n	MS			12
389.52	389.58	11	dkgy	fg					11
396.46	396.69	12	blk	f-mg	n	S			12
397.25	397.31	12	blk	f-mg	n	MS			12
398	398.04	12	blk	f-mg	n	MS			12
399.11	399.17	12	blk	f-mg	n	MS			12
405	405.4	3FT							3
434.7	434.81	12	blk	fg	n	MS			12
445.71	446.26	16	wht	cg					16

DDH W1623 Alteration Log

Hole ID: W1623 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: mmcleod
Collar Depth: 6 m Hole Depth: 447 m
Collar Coordinates: 577647.9mE 5394756.9mN (UTM NAD83)
Azimuth: 179 degrees Dip: -45.9 degrees
Core Size: NQ
Drilling Start Date: 29-Feb-2016
Drilling End Date: 11-Mar-2016
Drilled by: Boreal Drilling

Interval (m)		Major Rock Name	Alteration 1	Intensity	Mode	Alteration 2	Intensity	Mode	Alteration 3	Intensity	Mode	AlterationComments
From	To											
6	16.73	4q	Cx	M	k	Fx	WM	k	Mx	WM	k	Section also exhibits sparse moderate-strength bands of potassic alteration. Epidote alteration is also present as small veins (weak-moderate strength). Moderate strer
17.17	22.17	4q	Cx	MS	k	Mx	WM	k	Fx	W	k	
22.17	26.34	4q	Cx	MS	k	Fx	WM	k	Mx	WM	k	Section also exhibits weak selectively pervasive amphibole alteration.
26.34	29.16	4s	Cx	MS	g	Fx	WM	p	Ax	W	k	
29.16	42	4q	Cx	MS	k	Fx	WM	c				
42	45.96	4q	Cx	M	k	Ax	WM	p	Bx	WM	a	
45.96	51.36	4q	Cx	MS	k	Fx	WM	c	Mx	W	k	
51.36	57.06	4c	Cx	M	k	Fx	WM	c	Rd	WM	u	Section also exhibits weak banded muscovite alteration.
57.06	60	4q	Cx	MS	k	Rd	M	k	Mx	W	k	
60	60.56	4c	Fx	WM	c	Ax	W	u				
60.56	65.15	4q	Cx	WM	m	Fx	WM	k	Ax	WM	k	Section also exhibits weak-moderate banded/selectively pervasive muscovite alteration.
65.15	65.76	4c	Fx	WM	c	Mx	W	k				
65.76	66.39	4s	Fx	M	p	Cx	M	k				
66.39	69.41	4c	Cx	MS	g	Fx	M	ps	Mx	W	k	Fragments in section are feldspathized. Section also exhibits banded weak-moderate biotite alteration.
69.41	91.48	4q	Cx	MS	k	Fx	WM	k	Ex	M	v	Section also exhibits weak-moderate banded muscovite alteration
91.48	102.35	4q	Cx	MS	k	Rd	MS	u	Ex	M	g	This section also exhibits weak selectively pervasive amphibole alteration and muscovite alteration.
102.35	102.87	4q	Rd	WM	k							
102.87	104.53	4q	Cx	WM	k	Mx	WM	k	Fx	WM	k	
104.53	105.34	4s	Fx	M	ps	Rd	WM	k	Mx	W	k	Weak-moderate carbonate alteration is present as small veins/bands in this section.
105.34	110.57	4FT	Cx	MS	u	Mx	WM	k	Fx	WM	k	Reddish colouration is exhibited as small bands in this section - attributed to weak-moderate potassic alteration.
110.57	111.37	4FT	Cx	MS	u	Mx	WM	k	Fx	WM	k	Reddish colouration is exhibited as small bands in this section - attributed to weak-moderate potassic alteration.
111.37	114.25	4c	Ax	MS	v	Cx	MS	u	Mx	WM	k	
114.25	124.37	4Mu	Cx	MS	k	Fx	WM	k	Mx	WM	p	At the beginning of this section sparse bands of moderate-strong amphibole alteration are present; similarly
124.37	127.52	4c	Mx	WM	p	Cx	WM	u	Bx	WM	p	
127.52	137.26	4Mu	Mx	WM	p	Cx	WM	u	Fx	WM	k	
137.26	139.53	4c	Cx	MS	ps	Ax	M	ps	Mx	WM	ps	Selectively pervasive blue colouration is indicative of sodium-rich amphibole riebeckite that was introduce to the sediments in this area by lamprophyres. This section e;
140.54	141.88	4c	Cx	MS	v	Ax	M	p	Fx	W	p	Selectively pervasive blue colouration is indicative of sodium-rich amphibole riebeckite that was introduce to the sediments in this area by lamprophyres. This section e;
142.17	142.45	4c	Cx	MS	v	Ax	M	p	Fx	W	p	Selectively pervasive blue colouration is indicative of sodium-rich amphibole riebeckite that was introduce to the sediments in this area by lamprophyres. This section e;
142.45	145.48	4q	Cx	MS	k	Mx	WM	ps	Fx	W	p	
145.48	146.42	4s	Fx	M	k	Mx	WM	p	Cx	WM	k	
146.42	151.51	4q	Cx	MS	u	Ax	M	k	Mx	WM	ps	
151.51	160.15	4kt	Cx	MS	k	Ax	MS	k	Mx	WM	k	Muscovite alteration
160.15	177.75	4Mu	Cx	MS	k	Ax	M	k	Mx	WM	p	Moderate-strong bands of muscovite alteration are present throughout this section; the presence of muscovite is greater than the number of calc-silicate bands in this s
177.75	178.48	12q	Cx	MS	m	Rd	M	m				
178.48	187.1	4Mu	Cx	MS	k	Ax	M	k	Mx	M	k	Muscovite alteration
187.1	188.45	4q	Cx	WM	k	Ax	WM	k	Fx	W	p	
188.45	189.49	4q	Rd	M	u	Ex	M	v	Mx	W	p	Section also exhibits weak pervasive feldspathization.
189.49	191.45	4Mu	Cx	MS	k	Mx	WM	k	Fx	WM	k	
191.45	192.74	4Am	Ax	MS	p	Cx	WM	p				
192.74	199.72	4Mu	Fx	M	k	Mx	WM	k	Ax	WM	k	Moderate-strong carbonate alteration is present as nodules and spots within this section. Muscovite alteration
199.72	213.72	4c	Cx	MS	k	Fx	WM	p	Mx	WM	p	Although muscovite and feldspathization are pervasive
213.72	216.39	4s	Cx	MS	k	Fx	M	p	Mx	WM	p	This section also exhibits weak banded potassic alteration.
216.39	219.16	4c	Cx	MS	k	Fx	M	k	Mx	WM	k	
219.16	222.35	4q	Cx	MS	g	Bx	M	a				Biotite alteration coats carbonate nodules and bands.
222.35	225.2	4c	Cx	MS	u	Fx	WM	p	Mx	WM	k	
225.2	225.71	4q	Cx	WM	p							
225.71	231.73	4c	Mx	WM	p	Cx	WM	ps	Fx	WM	k	
231.73	235.78	4c	Cx	M	ps	Fx	WM	ps	Mx	WM	k	Section also exhibits weak-moderate potassic alteration as a quilt/patch in this unit.
235.78	240	4q	Cx	MS	u	Fx	WM	ps	Mx	WM	ps	Section exhibits weak-moderate potassic alteration as small nodules
240	241.13	2s	Fx	M	p	Mx	M	p	Bx	WM	g	Sparse moderate-strong carbonate alteration exists as nodules

DDH W1623 Mineralization Log

Hole ID: W1623 Project Code: WOC Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: mmcleod
 Collar Depth: 6 m Hole Depth: 447 m
 Collar Coordinates: 577647.9mE 5394756.9mN (UTM NAD83)
 Azimuth: 179 degrees Dip: -45.9 degrees
 Core Size: NQ
 Drilling Start Date: 29-Feb-2016
 Drilling End Date: 11-Mar-2016
 Drilled by: Boreal Drilling

Interval (m)		Ore Mineral 1	Mineralization Mode	Mineralization Percentage	Ore Mineral 2	Mineralization Percentage	Major Surrounding Rock Type	Comments
From	To							
6	16.73	Py	m	0.1			4q	
26.34	29.16	Py	k	0.2			4s	
45.96	51.36	Py	k	0.1			4q	
60.56	65.15	Po	m	0.1			4q	
192.74	199.72	Py	k	0.1			4Mu	
199.72	213.72	Py	m	0.3			4c	
213.72	216.39	Py	k	0.4			4s	
216.39	219.16	Py	k	0.1			4c	
232.07	235.78	Py	k	0.3			4c	
243.54	254.3	Py	m	0.2			2Bi	
258.25	262.95	Py	m	0.1			2Bi	
263.46	269.12	Py	k	0.75			2s	
273.51	275.8	Py	k	0.2			2cs	
275.8	279.89	Py	d	0.4			2cs	
280.15	281.18	Py	k	0.1			2cs	
281.18	282.68	Py	d	0.5			2Bi	
282.68	285.19	Py	k	0.3			2cs	
288.62	295.36	Py	k	0.3			2Bi	
295.36	298.53	Py	k	0.2			2s	
300.87	302.7	Py	k	2	Mo	0.05	2cs	
302.7	304.64	Py		0.1			2c	
305.49	308.34	Py	k	1			2Bi	
308.34	309.89	Py	d	0.1			2Bi	
309.89	311.39	Py	k	0.1			2cs	
314.56	318.19	Py	k	0.4			2s	
318.19	322.3	Py	d	0.2			2	
331	333.27	Py	k	0.2			2s	
337.17	338.33	Py	k	0.1			2cs	
338.5	346.91	Py	d	0.3			2cs	
346.91	350	Py	k	0.3			2Bi	
350	350.45	Py	d	0.1			2c	
350.45	351.16	Py	m	0.1			2Bi	
351.16	354.46	Py	k	0.2			3f	
354.46	372.82	Py	k	0.3			2Bi	
372.82	392	Py	k	0.5			3f	
396.19	401.45	Py	m	0.1			3fMu	
401.45	402.33	Py	k	0.3			2Bi	
402.77	405.66	Py	m	0.1			3c	
405.66	413.81	Py	k	0.2			2cs	
413.81	415.08	Py	d	0.1			2c	
415.08	418.1	Py	k	0.1			2Bi	
420.12	420.76	Py	d	0.1			2Bi	
420.76	423.32	Py	k	0.3			2s	
425	425.58	Py	d	0.1			2s	

DDH W1623 Mineralization Log

425.58	425.91	Py	m	0.3			2cs	
434.29	445.65	Py	k	0.1			4Mu	
445.65	446.35	Py	m	0.3			4Am	
446.35	447	Py	d	0.1			4Mu	

DDH W1623 Structural Log

Hole ID: W1623 Project Code: WOC Pi
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: mmcleod
Collar Depth: 6 m Hole Depth: 447 m
Collar Coordinates: 577647.9mE 5394756.9mN (UTM NAD83)
Azimuth: 179 degrees Dip: -45.9 degrees
Core Size: NQ
Drilling Start Date: 29-Feb-2016
Drilling End Date: 11-Mar-2016
Drilled by: Boreal Drilling

Depth	Major Surrounding Rock Type	Structure Type	Structure Subtype	Structure Infill	Alpha Angle	Gange Mineral	Ore Mineral	Thickness (mm)	Structure Comments
17.17	12	CT		S3	55		Smooth		
17.46	4q	CT		S3	55		Smooth		
98.1	4q	FT		S1	35		Smooth		
106.05	4FT	FT		S1	60		Smooth		
106.28	4FT	FT		S1	58		Smooth		
106.87	4FT	FT		S2	65		Smooth		
108.25	4FT	FT		S2	65		Smooth		
109	4FT	FT		S2	20		Smooth		
109.77	4FT	FT		S2	70		Smooth		
110.11	4FT	FT		S2	70		Smooth		
111.33	4FT	FT		S2	60		Smooth		
115.63	4Mu	FT		S2	65		Smooth		
116.09	4Mu	FT		S2	68		Smooth		
120.07	4Mu	FT		S2	65		Smooth		
124.39	4c	FT		S2	65		Smooth		
130	4Mu	FT		S2	25		Smooth		
130.3	4Mu	FT		S2	60		Smooth		
130.47	4Mu	FT		S2	30		Smooth		
135.9	4Mu	FT		S2	75		Smooth		
189.15	4q	FT		S2	50		Smooth		
231.49	4c	CT		S3	55		Smooth		
231.73	4q	CT		S3	55		Smooth		
236.67	4q	CT		S3	60		Smooth		
240.37	2s	FT		S1	40		Smooth		
240.7	2s	FT		S1	63		Smooth		
240.84	2s	FT		S1			Smooth		It is impossible to determine an alpha angle for this fault
243.73	2Bi	FT		S2	55		Smooth		
249.71	2Bi	FT		S1	55		Smooth		
251.72	2Bi	FT		S2	70		Smooth		
261.51	2s	FT		S2	60		Smooth		
264.64	2s	FT		S2	60		Smooth		
264.87	2s	FT		S2	55		Smooth		
265.67	2s	FT		S2	65		Smooth		
265.99	2s	CT		S3	70		Smooth		
269.08	2s	FT		S2	70		Smooth		
278.34	2cs	FT		S2	65		Smooth		
281.18	2cs	FT		S2	70		Smooth		
285.19	2cs	CT		S3	10		Smooth		
285.89	2Bi	FT		H1			Smooth		It is clear that a fault is present in this location; however
318.63	2FT	FT		S2	60		Smooth		
319.82	2FT	FT		S1			Smooth		
321	2FT	FT		S1	1		Smooth		
321.32	2FT	FT		S1	0		Smooth		
321.66	2FT	FT		S1	40		Smooth		
321.86	2FT	FT		S2	55		Smooth		
322.18	2FT	FT		S2	45		Smooth		
325.25	2cs	FT		S1	40		Smooth		
325.84	14	FT		S2	26		Smooth		
328.61	2cs	FT		S1	15		Smooth		
333.27	2s	CT		S3	55		Smooth		
333.55	12	FT		S1	65		Smooth		
337.29	2cs	CT		S3	70		Smooth		
338.07	2cs	CT		S3	60		Smooth		
339.99	2cs	CT		S3	50		Smooth		
351.21	3f	FT		S2	85		Smooth		
356.21	2Bi	FT		S2	75		Smooth		
372.86	3f	FT		S2	64		Smooth		
376.2	3f	FT		S2	65		Smooth		
376.78	3f	CT		S3	75		Smooth		
396.35	3fMu	CT		S3	50		Smooth		
397.25	3fMu	CT		S3	50		Smooth		
398.4	3fMu	FT		S2	55		Smooth		

DDH W1623 Structural Log

402.43	2Bi	FT		S2	60		Smooth		
405.4	3c	FT		S2	52		Smooth		
406.52	2cs	FT		S2	78		Smooth		
408.41	2cs	FT		S2	80		Smooth		
410.92	2cs	FT		S2	11		Smooth		
411.49	2cs	FT		S1	50		Smooth		
420.12	2s	FT		S2	75		Smooth		
420.95	2s	FT		S2	70		Smooth		
424.97	2FT	FT		S2	35		Smooth		
434.7	4Mu	CT		S3	65		Smooth		
434.94	4Mu	FT		S2	65		Smooth		

Appendix G

DDH W1626 Drill Logs

DDH W1626 Major Lithology Log

Hole ID: W1626 Project Code: WOC_Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: twilliams
Collar Depth: 6.0 m Hole Depth: 420 m
Collar Coordinates: 577947.9mE 5394766mN (UTM NAD83)
Azimuth: 180 degrees Dip: -47 degrees
Core Size: NQ
Drilling Start Date: Mar 12, 2016
Drilling End Date: Mar 15, 2016
Drilled by: Boreal Drilling

LoggedDate	Interval (m)		Major Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Texture 3	Intensity	Mineralization	Percentage Mineralization
	From	To											
18-Mar-16	0	6	0										
18-Mar-16	6	7.4	4s	pnk	fg								
18-Mar-16	7.4	7.7	4q	dkgy	fg								
18-Mar-16	7.7	10.68	4s	pnk	fg								
18-Mar-16	10.68	12.76	4q	dkgy	f-mg								
18-Mar-16	12.76	16	4s	dkgy	fg	k							
18-Mar-16	16	20.56	4q	dkgy	fg	q							
18-Mar-16	20.56	24.83	4q	dkgy	fg	k	WM						
18-Mar-16	24.83	26.89	4Mu	ltgy-dkgy	f-mg	k							
18-Mar-16	26.89	29.17	4c	dkgy	f-mg	c	WM						
18-Mar-16	29.17	35.64	4q	dkgy	fg								
18-Mar-16	35.64	41	4q	dkgy	fg								
18-Mar-16	41	43.93	4Mu	ltgy-dkgy									
18-Mar-16	43.93	47.17	4c	dkgy	f-mg	c	M						
22-Mar-16	47.17	49.47	4FT	dkgy	f-mg	q							
22-Mar-16	49.47	62.8	4q	dkgy	f-mg	k	W	q					
22-Mar-16	62.8	64.82	4c	dkgy	f-mg	c	M						
22-Mar-16	64.82	70.45	4q	dkgy	f-mg	k	W	q					
22-Mar-16	70.45	76.9	4kt	dkgy	f-mg	t	M	k	W				
22-Mar-16	76.9	81.34	4q	dkgy	f-mg	k	W	q					
22-Mar-16	81.34	82.98	4Mu	dkgy	f-mg	k	WM						
22-Mar-16	82.98	94.46	4q	dkgy	f-mg	k	W	q					
22-Mar-16	94.46	97	4FT	dkgy	f-mg	k	W						
23-Mar-16	97	105	4Mu	dkgy	f-mg	k	WM	t	W				
23-Mar-16	105	114.88	4Mu	ltgy-dkgy	f-mg	k	MS						
23-Mar-16	114.88	121.2	4q	dkgy	f-mg	k	W	q					
23-Mar-16	121.2	125.09	4Mu	ltgy-dkgy	f-mg	k	M						
23-Mar-16	125.09	128.28	4q	dkgy	f-mg								
23-Mar-16	128.28	140.69	4Mu	ltgy-dkgy	fg	k	MS						
23-Mar-16	140.69	153.45	4Mu	ltgy-dkgy	fg	k	S	c	W				
23-Mar-16	153.45	166.63	4q	dkgy	f-mg	k	W	c	WM				
23-Mar-16	166.63	183.81	4Mu		fg	c	W						
23-Mar-16	183.81	184.86	4c	ltgy-dkgy	f-mg	c	WM						
23-Mar-16	184.86	185.44	4Mu	ltgy-dkgy	fg	k	WM						
23-Mar-16	185.44	186.3	4FT										
23-Mar-16	186.3	191	4Mu	ltgy-dkgy	fg	k	WM						
23-Mar-16	191	196	4c	ltgy-dkgy	f-mg	c	M						
23-Mar-16	196	200.57	4q	dkgy	fg	c	W	PS	W	k	W		
23-Mar-16	200.57	209.95	4Mu	ltgy-dkgy	f-mg								
23-Mar-16	209.95	211.12	8e	ltgy	fg	j	MS						
23-Mar-16	211.12	212.28	4Mu	ltgy-dkgy	fg	k	MS	c	W				
23-Mar-16	212.28	218.5	4Mu	ltgy-dkgy	fg	k	WM	c	W	PS	W		
23-Mar-16	218.5	227.81	4q	dkgy	f-mg	k	WM	c	W				
23-Mar-16	227.81	235.4	4Mu	medgy-dkgy	fg	k	WM	PS	W				
23-Mar-16	235.4	237.48	4s	ltgy-dkgy	fg	k	WM						
23-Mar-16	237.48	246	4Mu	medgy	fg	k	WM						
23-Mar-16	246	246.33	12	blk	fg	n	MS						
23-Mar-16	246.33	248	4c	ltgy-dkgy	f-mg	c	M	k	WM				
23-Mar-16	248	252.47	4Mu	ltgy-dkgy	fg	k	M	c	W				
23-Mar-16	252.47	261.26	2cs	ltgy-dkgy	f-mg	c	MS	f	M				
23-Mar-16	261.26	265.42	2cs	medgy	f-mg	c	MS						
23-Mar-16	265.42	266.36	12	blk	f-mg	n	WM						
23-Mar-16	266.36	283.06	2cs	ltgy-medgy	f-mg	c	MS						
23-Mar-16	283.06	283.98	12	blk	f-mg								
23-Mar-16	283.98	289.92	2cs	ltgy-dkgy	f-mg	c	MS						
24-Mar-16	289.92	290.55	12	blk	f-mg	n	M						
24-Mar-16	290.55	299.29	2s	brngy	f-mg	c	WM						
24-Mar-16	299.29	300.53	2s	grngry	f-mg	c	WM						
24-Mar-16	300.53	312.5	2Bi	dkgy	f-mg	c	WM	k	WM				
24-Mar-16	312.5	324.59	2cs	ltgy-dkgy	f-mg	c	MS	k	WM				
24-Mar-16	324.59	333	2Bi	dkgy	fg	k	WM						
24-Mar-16	333	335.55	2cs	ltgy-dkgy	f-mg	c	MS						

DDH W1626 Major Lithology Log

Hole ID: W1626 Project Code: WOC_Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: twilliams
 Collar Depth: 6.0 m Hole Depth: 420 m
 Collar Coordinates: 577947.9mE 5394766mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -47 degrees
 Core Size: NQ
 Drilling Start Date: Mar 12, 2016
 Drilling End Date: Mar 15, 2016
 Drilled by: Boreal Drilling

LoggedDate	Interval (m)		Major Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Texture 3	Intensity	Mineralization	Percentage Mineralization
	From	To											
24-Mar-16	335.55	337.19	2Bi	dkgy	fg	k	W						
24-Mar-16	337.19	346.94	3cs	ltgy-medgy	f-mg	c	MS	k	MS	f	WM		
24-Mar-16	346.94	347.45	3Bi	dkgy	f-mg	e	W	f	WM				
24-Mar-16	347.45	350.96	3cs	ltgy-medgy	f-mg	c	MS	k	MS	f	WM		
24-Mar-16	350.96	351.52	12	blk	f-mg	n	MS						
24-Mar-16	351.52	352.82	3cs	ltgy-medgy	f-mg	c	MS	f	WM				
24-Mar-16	352.82	353.48	12	blk	f-mg	n	MS						
24-Mar-16	353.48	372.51	3cs	ltgy-medgy	f-mg	c	MS	k	WM	f	W		
24-Mar-16	372.51	376.86	2Bi	dkgy	fg	c	W	k	W				
24-Mar-16	376.86	383.28	3f	medgy	f-mg	e	WM	f	S				
24-Mar-16	383.28	415.82	3fMu	ltgy-medgy	f-mg	f	S	e	WM				
24-Mar-16	415.82	420	3f	medgy	f-mg	e	WM	f	S				

DDH W1626 Minor Lithology Log

Hole ID: W1626 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: twilliams
Collar Depth: 6.0 m Hole Depth: 420 m
Collar Coordinates: 577947.9mE 5394766mN (UTM NAD83)
Azimuth: 180 degrees Dip: -47 degrees
Core Size: NQ
Drilling Start Date: Mar 12, 2016
Drilling End Date: Mar 15, 2016
Drilled by: Boreal Drilling

Interval (m)		Minor Rock Name	Rock Colour	Grain Size	Texture 1	Intensity	Texture 2	Intensity	Major Surrounding Rock Type
From	To								
36.58	36.86	9f	dkgy	f-mg	f	S			4q
108.24	108.35	16	wht	cg					4mu
142.27	142.38	16	wht	cg					4mu
146	146.15	16	wht						4mu
216.53	216.63	16	wht	cg					4mu
251.75	252	11	dkgy	fg					4mu
252.25	252.47	11	dkgy	fg					2cs
265.1	265.42	12	blk	f-mg					2cs
275.4	275.5	12	blk	f-mg	n	MS			2cs
283.76	283.84	16	wht	cg					2cs
294.49	294.77	12	blk	f-mg	n	MS			2s
310.79	310.97	2Bi							2s
312.26	312.48	12							2cs
332.77	332.83	16	wht	cg					2Bi
333.45	333.51	16	wht	cg					2cs
338.46	338.73	2Bi	dkgy	fg					3cs
347.05	347.1	12	blk	f-mg	n	MS			3Bi
353.56	353.82	12	blk	f-mg	n	MS			3cs
366.05	366.21	16	wht	cg					3cs
367.97	368.07	3sPy							3cs
369.53	369.79	12	blk	f-mg	n	MS			3cs
373.15	373.21	12	blk	f-mg	n	MS			2Bi
375.06	375.12	12	blk	f-mg	n	MS			2Bi
376.47	376.61	16	wht	cg					2Bi
385.44	385.52	12	blk	f-mg	n	MS			3fmu
411.17	411.25	16	wht	cg					3fmu
412.12	412.26	16	wht	cg					3fmu
413	413.16	16	wht	cg					3fmu
413.59	413.75	16	wht	cg					3fmu

Hole ID: W1626 Project Code: WOC_Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: twilliams
 Collar Depth: 6.0 m Hole Depth: 420 m
 Collar Coordinates: 577947.9mE 5394766mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -47 degrees
 Core Size: NQ
 Drilling Start Date: Mar 12, 2016
 Drilling End Date: Mar 15, 2016
 Drilled by: Boreal Drilling

Interval (m)		Major Rock Name	Alteration 1	Intensity	Mode	Alteration 2	Intensity	Mode	Alteration 3	Intensity	Mode	AlterationComments
From	To											
6	7.4	4s	Rd	MS	ps	Ex	M	a	Fx	W	p	
7.4	7.7	4q	Cx	WM	m	Sx	WM	v				
7.7	10.68	4s	Rd	MS	ps	Ex	MS	k	Fx	W	p	
10.68	12.76	4q	Cx	MS	m	Fx	W	p	Bx	W	p	
12.76	16	4s	Rd	MS	k	Ex	M	a	Fx	W	p	
16	20.56	4q	Cx	M	m	Sx	M	v	Mx	WM	ps	
20.56	24.83	4q	Cx	M	m	Fx	WM	p	Mx	W	k	
24.83	26.89	4Mu	Cx	MS	k	Mx	WM	p	Fx	W	p	
26.89	29.17	4c	Mx	WM	k	Rd	WM	k	Fx	W	p	
29.17	35.64	4q	Cx	MS	m	Rd	M	u	Mx	W	k	
35.64	41	4q	Cx	MS	k	Mx	WM	u	Fx	W		
41	43.93	4Mu	Cx	MS	u	Mx	WM	p	Bx	WM	k	
43.93	47.17	4c	Cx	MS	u	Mx	WM	k	Bx	WM	k	
47.17	49.47	4FT	Cx	M	p	Mx	M	p	Bx	WM	p	
49.47	62.8	4q	Cx	WM	p	Mx	M	p	Bx	WM	p	
62.8	64.82	4c	Cx	WM	p	Mx	WM	p	Bx	WM	p	
64.82	70.45	4q	Cx	WM	p	Mx	WM	p	Bx	WM	p	
70.45	76.9	4kt	Bx	WM	p	Mx	WM	p	Cx	W	p	
76.9	81.34	4q	Bx	WM	p	Mx	WM	p	Cx	WM	p	
81.34	82.98	4Mu	Mx	M	p	Bx	WM	p	Cx	WM	p	
82.98	94.46	4q	Bx	WM	p	Mx	WM	p				
94.46	97	4FT	Cx	MS	p	Bx	WM	p	Mx	WM	p	
97	105	4Mu	Bx	M	p	Mx	M	p	Cx	WM	p	
105	114.88	4Mu	Mx	M	k	Ax	WM	k	Fx	WM	k	Section exhibits weak-moderate banded carbonate alteration
114.88	121.2	4q	Cx	MS	k	Ax	W	k	Mx	W	u	
121.2	125.09	4Mu	Mx	M	k	Ax	M	k	Fx	WM	k	Section also exhibits banded weak-moderate carbonate alteration.
125.09	128.28	4q	Cx	M	k	Mx	W	p				
128.28	140.69	4Mu	Cx	MS	k	Ax	M	k	Mx	WM	p	Section also exhibits weak banded feldspathization.
140.69	153.45	4Mu	Ax	MS	k	Mx	M	k	Fx	M	k	Sparse
153.45	166.63	4q	Cx	MS	k	Mx	WM	k	Ax	WM	k	
166.63	183.81	4Mu	Cx	M	u	Mx	WM	ps	Ax	WM	k	Weak selectively pervasive feldspathization is exhibited in this section.
183.81	184.86	4c	Mx	M	k	Bx	WM	k	Fx	W	k	
184.86	186.3	4Mu	Mx	M	k	Bx	WM	k	Fx	W	k	
186.3	191	4FT	Mx	M	k	Bx	WM	k	Fx	W	p	
191	196	4Mu	Cx	MS	u	Mx	WM	k	Fx	W	p	Section also exhibits moderate banded biotite alteration.
196	200.57	4c	Cx	MS	m	Ax	MS	k	Mx	W	p	
200.57	209.95	4q	Ax	MS	k	Mx	WM	p	Fx	W	ps	
209.95	211.12	4Mu	Mx	MS	p	Fx	W	p				
211.12	212.28	8e	Mx	M	k	Bx	WM	k	Fx	WM	k	
212.28	218.5	4Mu	Cx	MS	k	Ax	M	k	Mx	WM	p	
218.5	227.81	4Mu	Cx	MS	k	Ax	M	k	Mx	W	p	Section also exhibits weak bands of feldspathization
227.81	235.4	4q	Cx	MS	k	Mx	WM	ps	Ax	WM	k	Weak selectively pervasive feldspathization is also present near the beginning of this section.
235.4	237.48	4Mu	Cx	MS	k	Fx	M	p	Ax	M	k	weak-moderate banded muscovite alteration is also present in this section.
237.48	246	4s	Cx	MS	k	Mx	WM	p	Ax	WM	k	Weak banded feldspathization is also present in this section.
246.33	248	4Mu	Cx	MS	k	Mx	WM	k	Fx	W	p	
248	252.47	12	Cx	M	u	Mx	WM	p	Ax	WM	k	Section also exhibits selectively pervasive weak feldspathization.
252.47	261.26	4c	Fx	M	p	Mx	WM	ps	Ax	WM	k	This section also exhibits banded weak-moderate biotite alteration as well as nodules and spots of moderate-strong strength carbonate alteration.
261.26	265.42	4Mu	Cx	MS	m	Fx	MS	p	Ax	M	ps	Section exhibits weak-moderate pervasive muscovite alteration.
266.36	283.06	2cs	Cx	MS	p	Fx	MS	p	Ax	WM	p	Section also exhibits banded moderate biotite alteration
283.98	289.92	2cs	Cx	MS	u	Fx	MS	p	Bx	M	k	
290.55	299.29	2s	Cx	MS	m	Fx	MS	p	Mx	WM	k	
299.29	300.53	2s	Cx	MS	p	Fx	M	p	Bx	WM	k	Entire section appears as though it exhibits pervasive weak-moderate chlorite alteration.
300.53	312.5	2Bi	Cx	MS	k	Fx	WM	u	Bx	WM	a	Biotite alteration coats carbonate bands
312.5	324.59	2cs	Cx	MS	k	Fx	MS	p	Bx	M	p	Biotite alteration occurs as rims and coatings around carbonate nodules
324.59	333	2Bi	Cx	MS	k	Bx	WM	a	Fx	W	p	Biotite coats/rims carbonate nodules
333	335.55	2cs	Cx	MS	u	Fx	MS	p	Bx	M	p	
335.55	337.19	2Bi	Cx	MS	k	Bx	M	u	Fx	W	p	Section exhibits weak pervasive muscovite alteration.
337.19	346.94	3cs	Fx	MS	p	Cx	MS	k	Bx	M	k	Biotite alteration coats carbonate nodules
346.94	347.45	3Bi	Fx	M	p	Mx	W	p	Bx	W	p	
347.45	350.96	3cs	Fx	MS	p	Cx	MS	k	Bx	M	k	Biotite alteration coats carbonate nodules
351.52	352.85	3cs	Fx	MS	p	Bx	M	k	Ax	WM	p	Biotite alteration coats carbonate nodules

DDH W1626 Alteration Log

Hole ID: W1626 Project Code: WOC_Pit
 Mining Land Number: Lease Claim 274
 Planned by: bgraham Logged By: twilliams
 Collar Depth: 6.0 m Hole Depth: 420 m
 Collar Coordinates: 577947.9mE 5394766mN (UTM NAD83)
 Azimuth: 180 degrees Dip: -47 degrees
 Core Size: NQ
 Drilling Start Date: Mar 12, 2016
 Drilling End Date: Mar 15, 2016
 Drilled by: Boreal Drilling

Interval (m)		Major Rock Name	Alteration 1	Intensity	Mode	Alteration 2	Intensity	Mode	Alteration 3	Intensity	Mode	AlterationComments
From	To											
353.48	372.51	3cs	Fx	MS	p	Cx	MS	m	Bx	M	k	Section also exhibits weak-moderate muscovite alteration
372.51	376.86	2Bi	Mx	MS	u	Bx	M	k	Cx	W	k	
376.86	383.28	3f	Mx	W	u	Bx	W	k	Fx	W	p	
383.28	415.82	3fmu	Bx	M	m	Mx	WM	ps	Fx	W	ps	Section also exhibits sparse moderate-strong carbonate alteration as nodules
415.82	420	3f	Cx	MS	m	Bx	M	k	Fx	W	p	Section also exhibits weak pervasive muscovite alteration. Biotite alteration also rims and coats carbonate alteration.

DDH W1626 Mineralization Log

Hole ID: W1626 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: twilliams
Collar Depth: 6.0 m Hole Depth: 420 m
Collar Coordinates: 577947.9mE 5394766mN (UTM NAD83)
Azimuth: 180 degrees Dip: -47 degrees
Core Size: NQ
Drilling Start Date: Mar 12, 2016
Drilling End Date: Mar 15, 2016
Drilled by: Boreal Drilling

Interval (m)		Ore Mineral 1	Mineralization Mode	Mineralization Percentage	Ore Mineral 2	Mineralization Percentage	Major Surrounding Rock Type	Comments
From	To							
105	114.88	Py		0.1			4mu	
200.57	209.95	Py	k	0.2			4mu	
209.95	211.12	Py	k	0.5			8e	
211.12	212.28	Po	k	0.05	Py	0.05	4mu	
235.4	237.48	Py	d	0.05			4s	
252.47	261.26	Py	m	0.1			2cs	
261.26	265.42	Py	k	0.1	VG		2cs	VG was found in a calc-silicate band at approximately 264.85m.
266.36	283.06	Py	d	0.3			2cs	
283.98	289.92	Py	d	0.4			2cs	
290.55	299.29	Py	k	0.2			2s	
300.53	312.5	Py	u	2			2Bi	Although pyrite mineralization is primarily disseminated
312.5	324.59	Py	k	0.2			2cs	
324.59	333	Py	d	0.1			2Bi	
333	335.55	Py	m	0.1			2cs	
335.55	337.19	Py	d	0.1			3cs	
337.19	346.94	Py	k	0.3			3cs	
347.45	350.96	Py	k	0.1	Mo	0.1	3cs	
351.52	352.85	Py	m	0.1			3cs	
353.48	372.51	Py	k	1.5	Mo	0.1	3cs	
372.51	376.86	Py	m	0.75			2Bi	
415.82	420	Py	k	0.5			3f	

DDH W1626 Structural Log

Hole ID: W1626 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
Planned by: bgraham Logged By: twilliams
Collar Depth: 6.0 m Hole Depth: 420 m
Collar Coordinates: 577947.9mE 5394766mN (UTM NAD83)
Azimuth: 180 degrees Dip: -47 degrees
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Drilling Start Date: Mar 12, 2016
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Depth	Major Surrounding Rock Type	Structure Type	Structure Subtype	Structure Infill	Alpha Angle	Gange Mineral	Roughness	Thickness (mm)	Structure Comments
6.52	4s	FT		S2	50		Smooth		
7.22	4q	FO		S3	60		Smooth		
9.69	4s	FT		S2	55		Smooth		
15	4s	FO		S3	60		Smooth		
17.74	4q	FT		S2	65		Smooth		
32.05	4q	FO		S3	55		Smooth		
33.31	4q	FT		S2	25		Smooth		
35.32	4q	FT		S1	25		Smooth		
35.41	4q	FT		S1	40		Smooth		
43.25	4mu	FT		S2	15		Smooth		
52.81	4q	FO		N	65		Smooth		
67.49	4q	FR		N	15		S_rough		
74.41	4kt	FO		N	55		Smooth		
91.22	4q	FT		S2	65		Slicken		
91.3	4q	FT		S1	65		Slicken		
91.46	4q	FT		S1	65		Slicken		
91.52	4q	FT		S2	65		Slicken		
91.84	4q	FT		S2	65		Slicken		
93.79	4q	FT		S2	65		Slicken		
94.34	4q	FT		S1	65		Slicken		
94.61	4q	FT		S1	65		Slicken		
94.81	4mu	FT		S1	65		Slicken		
94.91	4mu	FT		S1	65		Slicken		
95.35	4	FT		S1	65		Slicken		
95.54	4	FT		S1	65		Slicken		
95.73	4	FT		S1	65		Slicken		
95.89	4	FT		S1	65		Slicken		
96.09	4	FT		S1	65		Slicken		
96.52	4mu	FT		S1	65		Slicken		
96.71	4mu	FT		S1	65		Slicken		
96.90	4mu	FT		S1	65		Slicken		
101.34	4mu	FO		N	60		Smooth		
107.38	4mu	FR		H3	10		Smooth		
108.88	4mu	FO		N	65		Smooth		
109.19	4mu	FT		S2	65		Slicken		
117.39	4q	FT		S2	65		Slicken		
124.61	4mu	FO		N	65		Smooth		
125.71	4q	VN			40	Qz		9	
136.45	4mu	FO		N	65		Smooth		
139.94	4mu	FR		H1	20		Smooth		
140.7	4mu	FT		S3	60		Slicken		
145.58	4mu	FO		N	65		Smooth		
146.05	4mu	FR		H2	25		Smooth		
159.68	4q	FO		N	65		Smooth		
170.65	4mu	FO		N	65		Smooth		
185.2	4	FO		N	65		Smooth		
186.2	4	FT		N			Rough		Fault zone from 185.90-186.46m
194.08	4c	FO		N	65		Smooth		
202.78	4mu	FR		N	20		Smooth		
206.61	4mu	FO		N	65		Smooth		
211.22	4mu	FT		S2	65		Slicken		
211.24	4mu	FT		S3	65		Slicken		
211.28	4mu	FT		S1	65		Slicken		
219.14	4q	FO		N	65		Smooth		
231.61	4mu	CT		H1	25		S_rough		
232.92	4mu	FO		N	65		Smooth		
244.78	4mu	FR		N	10		Smooth		
248.51	4mu	VN			50	Qz		4	
258.32	2cs	FO		N	65		Smooth		
272.76	2cs	FO		N	70		Smooth		
283.98	12	CT		H3	65		Smooth		
293.69	2s	FO		N	60		Smooth		
294.63	2s	FT		S2	60		Slicken		
295.07	2s	FT		S2	55		Slicken		
295.6	2s	FT		S3	65		Slicken		
295.68	2s	FT		S2	65		Slicken		
295.74	2s	FT		S1	65		Slicken		
295.8	2s	FT		S2	65		Slicken		

DDH W1626 Structural Log

Hole ID: W1626 Project Code: WOC Pit
Mining Land Number: Lease Claim 274
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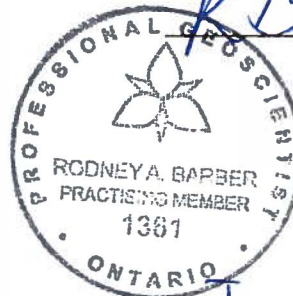
Depth	Major Surrounding Rock Type	Structure Type	Structure Subtype	Structure Infill	Alpha Angle	Gange Mineral	Roughness	Thickness (mm)	Structure Comments
296.54	2s	FT		S2	65		Slicken		
307.55	2Bi	FO		N	65		Smooth		
317.21	2cs	FT		S2	70		Slicken		
319.41	2cs	CT		H2	70		Smooth		
323.46	2cs	CT		H3	70		Smooth		
325	2Bi	FR		H3	10		Slicken		
327.7	2Bi	FR		H3	5		Smooth		
330.5	2Bi	FR		H2	5		Smooth		
332.33	2Bi	FR		H3	10		Smooth		
332.81	2Bi	FT		S1	65		Slicken		
332.88	2Bi	FT		S1	60		Slicken		
334.13	2Bi	FO		N	65		Smooth		
337.9	2Bi	FR		S3	15		S_rough		
339.76	3cs	FT		S2	65		Smooth		
340.42	3cs	FT		S2	70		Smooth		
341.65	3cs	FO		N	60		Smooth		
351.52	12	CT		S3	15		Smooth		
352.85	3cs	CT		S3	45		Smooth		
353.82	3cs	CT		S3	60		Slicken		
355.98	3cs	CT		N	65		Smooth		
357.15	3cs	CT		S3	15		Smooth		
357.93	3cs	FT		S1	70		Slicken		
357.98	3cs	FT		S2	70		Slicken		
358.14	3cs	FT		S2	70		Slicken		
358.2	3cs	FT		S2	70		Slicken		
358.71	3cs	FT		S3	75		Slicken		
359.63	3cs	FT		S2	65		Slicken		
361.32	3cs	FT		S2	75		Slicken		
367.53	3cs	FT		S2	70		Slicken		
375.06	2Bi	CT		S2	75		Smooth		
382.43	3f	FT		H2	55		Slicken		
388.14	3fmu	CT		S3	65		Slicken		
388.17	3fmu	FT		S2	60		Slicken		
389.93	3fmu	FT		S3	60		Slicken		
398.51	3fmu	FT		S3	20		Slicken		
400.7	3fmu	FT		S3	65		Slicken		

Appendix J
Certificate of Qualifications

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 17 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.



Rodney Barber, P.Geo.
Geology Superintendent
Barrick Hemlo

June 26, 2017

Date

Beth Leduc Certificate of Qualifications

I, Beth Leduc, do hereby certify that:

1. I am an active member of OACETT (Ontario Association of Certified Engineering Technicians and Technologists) as a C.Tech (Certified Technician) since 2011.
2. I have practiced my profession from 2008 to the present.
3. I have previously worked for Barrick at the David Bell mine as an under ground geological technician for 4 years.
4. I have previously worked as a technician in the Forestry/G.I.S industry for 8 years.
5. I have verified the contents of this report and believe this to be reasonable accurate and complete.

Beth Leduc

Beth Leduc
Project Coordinator
Barrick Hemlo

June 26/2017

Date