

**FINAL 2011 DIAMOND DRILLING  
REPORT**

**on the**

**RADIO HILL PROPERTY,  
TIMMINS WEST PROJECT,  
PORCUPINE MINING DIVISION,  
NORTHEASTERN ONTARIO**

**For**

**ROGUE IRON ORE CORP**

**August 18, 2012**

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## SUMMARY

The Radio Hill Property, held by Rogue Iron Ore, is situated 80 km southwest of Timmins, Ontario. It is comprised of 11 unpatented mining claims (1,789 hectares) in Penhorwood Township. It forms part of the Rogue Iron Ore Timmins West Project.

Previous exploration work by Rogue Iron Ore on the Radio Hill Property has included, in 2008 a two hole diamond drilling program and mechanical stripping on the Radio Hill iron formation. This was followed in 2010 by the drilling of hole RH10-01.

The objective of the 2011 diamond drilling program was to carry out an updated 43-101 compliant resource estimate on the Radio Hill iron deposit. The deposit has a historical resource of 427 million tons grading 27.3% iron. The Radio Hill iron deposit was developed in the 1960s by Kukatush Mining Corp.

A total of 22 drill holes (RH11-01 to RH11-22), were completed by one drill rig from August 15, 2011 to January 9, 2012. The iron formation intersected in the drill holes was sampled and sent for analysis. The analysis included the following: whole rock XRF analysis, Satmagan testing and selective Davis Tube Recovery testing with concentrate assaying. In addition previous Rogue holes RH08-1, RH08-2 and RH10-01 were sampled and sent for analysis. All 2011 drill core analysis results were received by February 10, 2012. This assay database will be compiled in 2012 for a more accurate, updated resource estimate of the Radio Hill iron deposit.

The 2011 Radio Hill Iron deposit exploration program returned the following significant iron results: 40.6% total iron ( $\text{Fe}_3\text{O}_4$ ) over 141 m from hole RH-08-01, 40.2% total iron over 354 m from hole RH-10-01 (27.1% and 30.5% iron Davies Tube weight recovery respectively), 37.9% total iron over 164 m from hole RH-11-06, 42.2% total iron over 171 m from hole RH-11-10, and 45.5% total iron over 149.8 m from hole RH-11-11.

The drilling program was on-going as of January 9, 2012.

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SECT 1950 - RH-11-15		SECT 2100 - RH-11-14
SECT 2225 - RH-11-13		SECT 2325 - RH-11-11, RH-11-12
SECT 2410 - RH-11-10		SECT 2560 - RH-11-06, RH-11-08
SECT 2710 - RH-10-01, RH-11-05		SECT 2870 - RH-11-03, RH-11-04
SECT 3010 - RH-08-01, RH-08-02, RH-11-02, RH-11-07, RH-11-22		
SECT 3180 - RH-11-01, RH-11-19, RH-11-20		
SECT 3330 - RH-11-09, RH-11-18		SECT 3480 - RH-11-21

## **INTRODUCTION**

The Radio Hill Property is comprised of 11 contiguous unpatented mining claims (111 claim units) covering approximately 1,789 hectares in Penhorwood Township. The property is held 100% by Rogue Iron Ore Corp.

Exploration work in 2008 consisted of diamond drilling (Hartley, 2008) and mechanical stripping on the Radio Hill iron formation (Montgomery and Sparling, 2008). This was followed in 2010 by the drilling of hole RH10-01 (Montgomery, 2011).

An initial assessment diamond drilling report was filed in October 2011 (Montgomery, 2012). This initial report contained preliminary drill logs without assay results for the following drill holes: RH11-01, RH11-02, RH11-03, RH11-05, RH11-15, RH11-16 and RH11-17.

The current report describes the 2011 diamond drilling program on the Radio Hill Property that was carried out from August 15, 2011 to January 9, 2012. It includes all assay results and final drill logs for the 2011 drilling program. In addition it includes iron ore exploration analytical assay results for holes RH08-1, RH08-2 and RH10-01.

The objective of the 2011 diamond drilling program was to complete an updated 43-101 compliant resource estimate on the Radio Hill iron deposit. The diamond drilling program continued into 2012 and will be reported in later 2012.

## **PROPERTY LOCATION AND ACCESS**

The Radio Hill Property, held by Rogue Iron Ore is located 76 kilometres southwest of Timmins, Ontario (Figure 1). It is comprised of 11 mining claims (111 claim units totalling about 1,789 hectares) that covers west central Penhorwood Township (see Table below).

The property is readily accessed by motor vehicle from Highway 101 West. The north-south trending Kukatush gravel road cuts through the central portion of the property. This road extends from Highway 101 to the Kukatush railroad siding on the CNR main line. A network of ATV and drill trails off the Kukatush gravel road gives further access to the property.

The main east-west rail line of the Canadian National Railway connecting eastern and western Canada transects the southwest corner of the Radio Hill Property, about 3 km south of hole RH10-01.

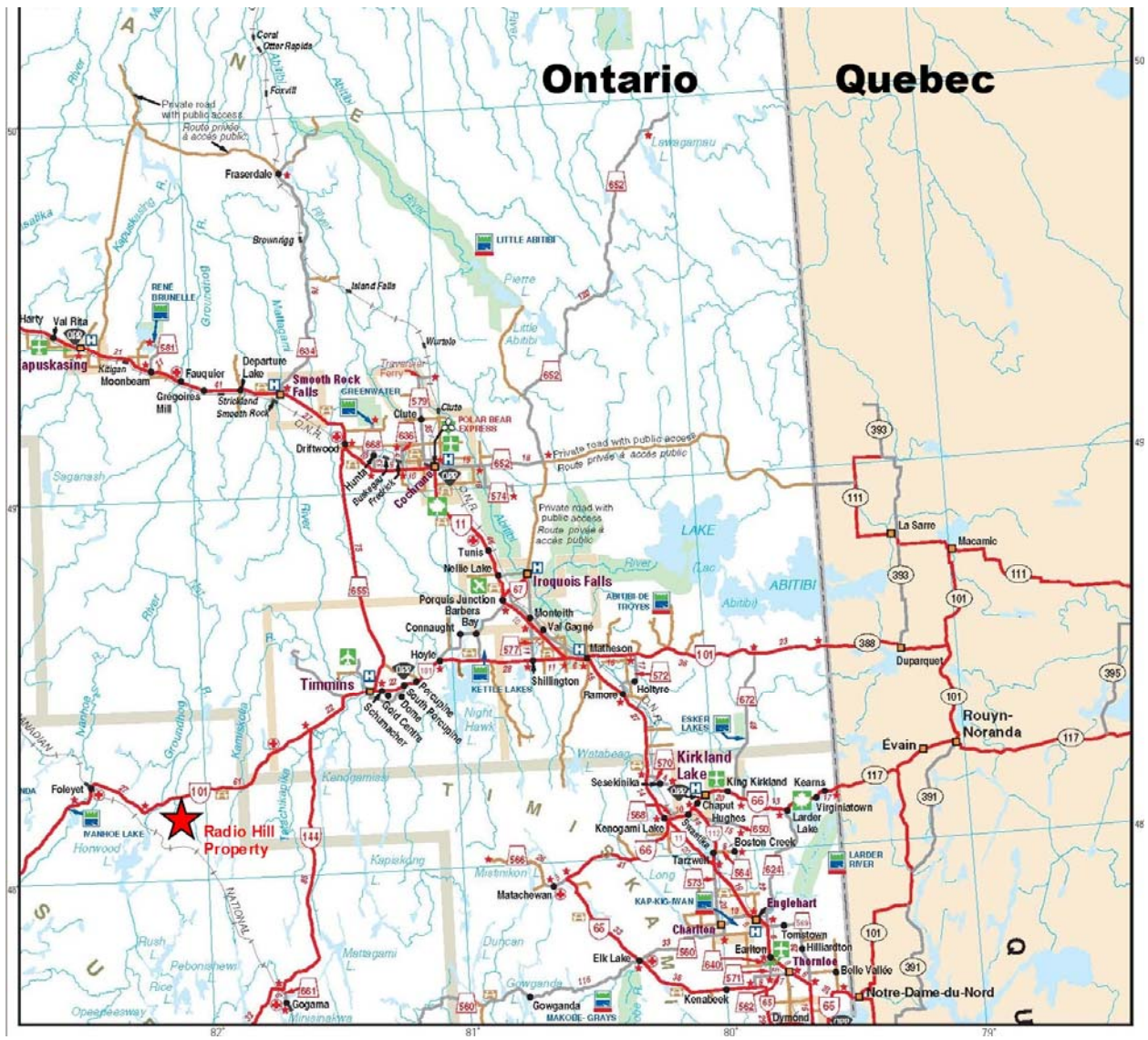


Figure 1 Location Map

**Table 1 Radio Hill Property Claims**

<b>Claim</b>	<b>Units</b>	<b>Due Date</b>	<b>Date Recorded</b>	<b>Work Req</b>	<b>Township</b>
4220731	16	22-Jun-13	22-Jun-06	\$6,400.00	Penhorwood
3019027	4	17-Oct-12	17-Oct-06	\$1,600.00	Penhorwood
4212618	4	17-Oct-15	17-Oct-06	\$1,600.00	Penhorwood
3019028	3	14-Nov-12	14-Nov-06	\$1,200.00	Penhorwood
4223266	14	19-Nov-12	19-Nov-06	\$5,600.00	Penhorwood
4224187	16	19-Nov-12	19-Nov-06	\$6,400.00	Penhorwood
4224188	16	19-Nov-12	19-Nov-06	\$6,400.00	Penhorwood
4224189	16	19-Nov-12	19-Nov-06	\$6,400.00	Penhorwood
4212499	4	14-Dec-12	14-Dec-06	\$1,600.00	Penhorwood
4214719	12	01-Mar-13	01-Mar-06	\$4,800.00	Penhorwood
3010209	6	25-June-17	25-June-04	\$2,400.00	Penhorwood

## **TIMMINS WEST PROJECT GEOLOGY**

The project lies within the Superior Province of Archean basement rocks, in the Eastern Canadian Shield. It is situated in the northeastern part of the Swayze Greenstone belt which appears to be the western extension of the Abitibi Greenstone belt.

The project area is predominantly underlain by southwest trending metamorphosed (greenschist) volcanics of the Muskego-Reeves Assemblage ranging from ultramafic to felsic. The mafic volcanics are pillowed to massive andesitic or basaltic flows. They are the dominant rock type on the property. Ultramafic volcanic flow units and/or intrusive sills trending east-west occur in the central portion of the property. They are intermixed with the mafic volcanics.

The east central portion of the project area is underlain by felsic volcanics of the Hanrahan Lake Complex that extend west from Kenogaming Township. The felsic volcanics are comprised of tuffs, lapilli tuffs, agglomerates and intermediate to felsic flows. They form the core of a major northwest plunging antiform fold. A fairly continuous iron formation known as the Nat River iron formation marks the boundary between the felsic volcanics and the mafic volcanics.

In the west portion of the project area (Radio Hill Property), metasediments consisting of greywackes and conglomerates occur. South of these metasediments, the geology consists of east-west trending mafic volcanic, ultramafic volcanic, metasediments and felsic volcanic units. In the central part of this east-west sequence is situated the Radio Hill iron formation. The Radio Hill iron formation has a historical resource, non 43-101 compliant, of a minimum of 158 million tons of banded chert-magnetite iron ore with an average grade of approximately 27.8% acid soluble iron outlined by Kukatush Mining Corporation in the





1960's (Hartley, 2008). South of the east-west trending sequence is the Kukatush Stock.

The north centre part of the project area is underlain by north-south trending ultramafic, mafic and felsic porphyry intrusive units that may be part of a layered complex. These intrusive units are interpreted to be sliced up by a series of northeast trending faults. In the southwest, the Kukatush Stock (Biotite hornblende granodiorite) intrudes the volcanics and in the southeast the Kenogamissi Batholith (hornblende and/or biotite bearing granodiorite to tonalite gneiss). Smaller quartz-feldspar and feldspar porphyry intrusive bodies also occur in the project area. All the rock types are intruded by late north to north-northwest trending diabase dykes.

Three major faults cross cut the project, the east-west trending Destor-Porcupine, the east-west trending Jehann Lake Fault and the southwest trending Hardiman Bay Fault (see Figure 2).

## **RADIO HILL IRON FORMATION GEOLOGY**

The Radio Hill iron formation is hosted in a stratigraphic sequence composed of sedimentary and volcanic rocks that are bound to the south by the Kukatush pluton and to the north by the Nat River igneous complex. The iron formation has a complex geologic history and has been metamorphosed to greenschist facies, folded and faulted, and intruded by mafic dikes.

Based on the 2011-2012 drilling program, Ken Rattee has described the Radio Hill geology as follows: Generally the Radio Hill stratigraphy can be characterized as a thick sequence of iron formation bounded by sedimentary units to the south and komatiite flows with sediments to the north. The banded iron formation is composed of beds of chert alternating with beds of magnetite, iron carbonates, minnesotaite and chlorite. Chlorite is typically associated with a pyrrhotite-pyrite replacement. The iron formation is intruded by intermediate and mafic dykes. Local sedimentary argillite can also be found within the iron formation sequence. The sedimentary units bounding the iron formation to the south are predominantly thickly bedded greywackes and mudstones.

### **Banded iron formation (IF-E, IF-F)**

Historically the magnetite-rich banded iron formation was subdivided into IF-E and IF-F groups based on the observed percentage of massive, magnetite beds within the unit. Lengths with greater than 50% magnetite beds were categorized as IF-E while those with less than 50% magnetite beds and greater than 20% were categorized as IF-F. The distinction between IF-E and IF-F are metallurgical not lithological in nature and show a continuum between the two. IF-E and IF-F should only be considered as the high grade and low grade members of the same lithological unit. As observed in the 2008 to 2012 drill programs significant lengths of iron formation with magnetite beds greater than 50% of the



total length of the unit was rarely seen in the core. The IF-F and IF-E units are considered the iron ore units of the deposit. Bedding angles to core axis can vary drastically over short intervals indicating tight folding.

The iron formation is characterized by beds of fine-grained, massive, dark grey magnetite with a distinctive metallic lustre. Low-grade iron formation that has narrower magnetite beds shows a duller appearance than the higher-grade iron formation containing thicker magnetite beds. Magnetite beds are typically 1-10 cm thick. Light grey chert typically alternates with the massive magnetite beds with lesser amounts of chert-magnetite, siderite, green minnesotaite, jasper and mudstone. Typically siderite, minnesotaite and mudstone beds are associated with the lower grade (IF-F) end of the iron formation while jasper is associated with the higher grade (IF-E) end. The chert beds typically host minor fine grained magnetite grains. Minor fine-grained pyrite and pyrrhotite as a local disseminations is common or concentrated adjacent or along fine chlorite-carbonate fractures and typically associated with the chert, minnesotaite or siderite beds.

#### **Siderite iron formation (IF-H)**

This is considered a low-grade iron ore unit, consisting predominantly of alternating beds of chert and siderite. Though siderite iron formation has been mined as an iron ore historically it is currently not considered to be economically viable for mining production. The siderite beds are typically beige to light brown and are fine-grained. The chert beds are typically fine-grained and light grey in colour. Massive magnetite beds constitute less than 20% of the unit and are generally nil to 5% of the unit. Minor ankerite can be associated with the siderite beds. Minor mudstone beds can also alternate with the chert/siderite beds. Minor fine-grained pyrite and fine to medium-grained pyrrhotite as local disseminations occur, often associated with hairline fractures. If found near the top of the hole, the unit can be slightly to moderately oxidized.

#### **Sulphide iron formation (IF-G)**

Iron formation with partial to complete replacement of the massive magnetite beds by pyrrhotite-pyrite-chlorite. Massive magnetite beds if evident constitute less than 20% of the unit and are typically nil to 5% of the unit. The replacement pyrrhotite-pyrite-chlorite alternates with light grey, fine-grained chert beds. Local massive pyrrhotite is often directly associated with massive chlorite. The fine to coarse-grained pyrrhotite can become massive over intervals of 20 cm or less. The massive pyrrhotite-chlorite can completely overprint the massive magnetite and chert beds resulting in bedding angles not being apparent. Pyrite is typically not as abundant as the pyrrhotite replacement but can locally dominate often associated with a moderate calcite alteration. The pyrite is typically fine-grained but can appear coarser and euhedral. Minor fine to medium grained chalcopyrite can be rarely observed. The unit weathers easily and if found near the top of the hole the unit can be moderately to highly oxidized which can result in broken rubble.

#### **Lean chert (SLC)**

Light grey chert beds containing less than 15% magnetite. The magnetite may be disseminated and/or in thinly layered massive beds. Minor mudstone and/or siderite beds can also alternate with the chert beds. Minor fine to coarse-grained pyrite and fine to medium-grained pyrrhotite can occur as local disseminations. This unit is associated with the iron formation.

### **Chert (SC)**

Massive, light grey to white, fine grained, chert beds. The chert can contain minor, fine-grained disseminated magnetite. Beds of dark grey, mudstone, pale brown siderite, and/or greenish minnesotaite can alternate with the chert beds. Minor fine to medium-grained pyrite can occur as local disseminations or as narrow stringers controlled by micro-fracturing. Minor fine to medium-grained pyrrhotite can occur as local disseminations. This unit is associated with the iron formation.

### **Mudstone (SM)**

Light greenish, grey to dark grey, fine-grained sedimentary rock with a silty, well sorted texture. It can appear as massive, unaltered beds to fine beds. Minor beds of chert can be observed locally. Minor fine-grained pyrite and/or pyrrhotite are seen locally as disseminations or a fracture-filling. Found predominantly as the bounding unit south of the iron formation.

### **Greywacke (SG)**

Dark grey to pale greenish-grey, fine to medium-grained sedimentary rock with a silty to sandy texture. Locally contains angular to sub-rounded lithic fragments up to 1 cm in size. Massive unit only fine bedding evident locally. Locally exhibits epidote and carbonate alteration. Found predominantly as the bounding unit south of the iron formation.

### **Argillite (SAG)**

It is a black to dark grey, fine to very fine-grained graphitic sedimentary rock. Typically a soft, silty, well sorted texture. It can appear massive to finely bedded. Locally exhibits alternating layers of black, graphite-rich beds and grey, graphite-poor beds. It has fine-grained pyrite and pyrrhotite locally to 5%. The pyrite often occurs as stringers and nodules up to 1 cm in thickness. Predominantly found as a waste unit in the middle of the iron formation between sections 2100E and 2560E. The unit can be up to 200 m in thickness, but generally 30-50 m thick.

### **Diabase (IDb)**

Dark grey to greenish-grey, equigranular, crystalline textured mafic intrusive rock observed as a dyke cross-cutting predominantly the iron formation units. Fine to medium-grained rock composed of plagioclase, pyroxene, olivine and biotite. It can have chlorite, carbonate and/or epidote alteration. Contacts with the adjacent lithologies are sharp and the adjacent lithologies can exhibit a contact alteration typically as a bleaching within 1 cm to 1 m of the contact. Generally less than 5 m in width though can be up to 60 m.

**Diorite (IDd)**

Grey to pale greenish-grey, intermediate intrusive rock as a dyke cross-cutting predominantly the iron formation units. Fine to medium-grained rock composed of plagioclase, biotite, hornblende, pyroxene and quartz. Predominantly an equigranular, massive, crystalline texture though local sections can appear porphyritic with coarser plagioclase. It can exhibit carbonate alteration. The contacts with adjacent lithologies are sharp. The dykes are less than 5 m in width.

**Komatiite Volcanic (VK)**

Dark grey to brownish-green, fine to coarse-grained, ultramafic volcanic rock composed of olivine, pyroxene and plagioclase. Predominantly equigranular and massive though locally can exhibit a slight porphyritic texture with coarser olivine. It can contain fuschite, talc and/or serpentine alteration. Where unit becomes locally fuschitic the alteration will show varying degrees of the typical emerald green colouration. Where talcose the unit becomes soft with a greasy feel with the core locally being highly broken. Minor narrow, bullish, white quartz stringers typically cut the unit. Spinifex texture is rarely observed. Its contacts with adjacent lithologies are sharp. Komatiite is the typical unit bounding the iron formation to the north.

**Basalt (VB)**

Dark greenish-grey, fine-grained, equigranular and massive mafic volcanic rock composed primarily of plagioclase and pyroxene with lesser amounts of quartz. Chlorite alteration is common with lesser epidote and carbonate alteration. Flow textures are not observed. It is a minor unit in the volcanics north of the iron formation.

**Hydrothermal breccia (HBX)**

Not a primary lithological unit rather a texture resulting from hydrothermal fluid emplacement. Breccia contains coarse to angular fragments. Edges might be rounded with replacement along the trim. Matrix mostly composed of quartz or carbonates with sulphides.

**Tectonic breccia (TBX)**

Not a primary lithological unit rather a texture resulting from structural movement or volcanic activity. It contains rounded to angular fragments that are medium to fine size. Matrix is composed of fine-grained milled rock.

**Radio Hill Structure**

Two main periods of deformation have folded and faulted the Radio Hill iron formation. The earliest period of deformation is related to regional-scale polyphase folding. The later period of deformation is associated with the development of ductile and brittle-ductile faults (Ayers, 1995). The iron formation is thickened in the vicinity of Radio Hill by folding. The iron formation is folded into an S-fold that plunges moderately (approximately 50°) to the

northwest. Additionally, historical mapping and the present diamond drilling indicates many small mafic dikes (diabase and diorite) crosscut the Radio Hill iron formation. The paucity of outcrops makes projecting dykes and faults difficult.

Numerous local scale faults were observed in the core characterized by zones of intense fracturing shearing and brecciation, often associated with ground core intervals. Chlorite and carbonate alteration is typical. Mud gouge, typically chloritic, was observed in a few instances but was not common. Core widths were typically less than 2 m though in drill hole RH-11-02 and RH-11-18 core widths of fault zones were recorded as 17.27 m and 28.15 m respectively. As no core angles were recorded with the logging of these wide structures it was not possible to ascertain the true width of these structural features. On cross-section it was not possible to correlate these local scale faults from section to section. It has been interpreted (Shoemaker, Johnson and Mariani, 2010) that the most prominent strike direction of the faulting in the drilling area of the Radio Hill property is that of approximate north-south cross faulting. As all the drilling was done in either a north or south azimuth along the strike of the interpreted cross-faults such a drill azimuth would make it difficult to establish correlation of such cross-faults along drill sections.

Bedding angles were noted frequently in the iron formations and show a great degree of variation. It was not uncommon to observe bedding angle variations in the order of 40° over lengths of less than 10 m in the core. While indicating the presence of numerous very tight, local scale folds they would also have the effect of masking the more regional, property scale S-folds that are interpreted to thicken the iron formation in the drilling area.

## **DISCUSSION OF DIAMOND DRILLING**

The diamond drilling program employed one diamond drill rig provided by Orbit-Garant Drilling Inc. of Val d'Or Quebec. A diamond drilling camp was set up on the property by Rogue Iron Ore and Orbit-Garant Drilling. This was done due to the high travel time from the nearest rental accommodation to the property (1 to 1.5 hours) and thus diamond drilling would be continuous in the hard iron formation. This naturally increased the cost of drilling.

The holes were drilled as part of a NI 43-101 compliant, technical resource estimate on the Radio Hill Iron deposit (Figure 3). The deposit has a historical resource of 427 million tons grading 27.3% iron. The Radio Hill deposit was developed in the 1960s by Kukatush Mining Corp. A total of 22 NQ diamond drill holes were completed and logged from August 15, 2011 to January 9, 2012 (see Table 2). The drilling program continued into 2012.

It was co-ordinated and supervised by the author. Drill core logging and field drill supervision was carried out by Karina Sarabia, J-P Paiement and Matthew Halliday geologists employed by SGS Canada Inc. (Geostat Office) of Montreal Quebec. The lack of available geologists in the Timmins area during the fall of 2011 necessitated utilizing



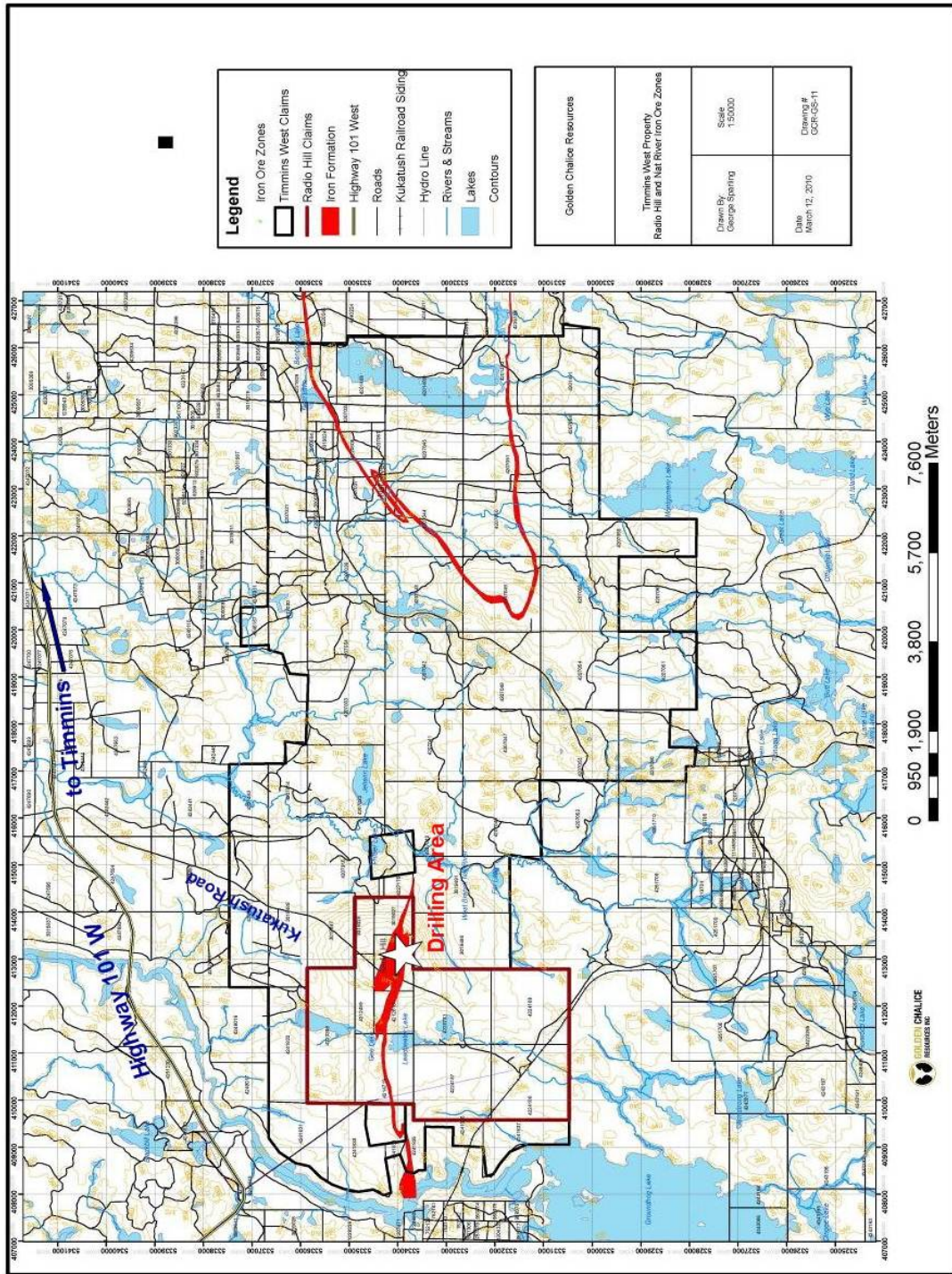


Figure 3 Drill Hole Location Map

SGS Canada. This significantly increased the costs of the diamond drilling program. In addition, their expertise in iron ore exploration was invaluable to Rogue Iron Ore. The field technical tasks associated with the drilling program were conducted by Doug Bryant of Timmins, Ontario. Core cutting and splitting was completed by George Ross of Timmins, Ontario. The maps and sections of this report were drafted by Ken Rattee of Kirkland Lake Ontario.

**Table 2 Radio Hill 2011 Diamond Drill Holes (as of January 9, 2012)**

HOLE	EASTING NAD83	NORTHING NAD83	Elevation	Length	Azimuth	Dip	CLaim No
RH-11-01	413169.6	5334044.8	437.6	110	180	-45	3010209
RH-11-02	413002.8	5333969.1	441.7	171	180	-45	3010209
RH-11-03	412875.1	5334123.2	431.6	342	180	-45	3010209
RH-11-04	412870.4	5334016.8	436.1	219	180	-45	3010209
RH-11-05	412709.8	5334146.0	439.5	312	180	-45	3010209
RH-11-06	412549.2	5334180.0	439.0	294	180	-45	3010209
RH-11-07	413001.3	5334070.0	442.3	243	180	-45	3010209
RH-11-08	412560.3	5334006.6	430.7	102	180	-45	3010209
RH-11-09	413327.7	5333950.4	443.5	141	180	-45	3010209
RH-11-10	412423.2	5334075.2	422.5	198	180	-45	3010209
RH-11-11	412338.1	5334223.8	415.3	330	180	-45	3010209
RH-11-12	412325.3	5334023.2	415.9	102	180	-45	3010209
RH-11-13	412244.7	5334267.0	406.0	315	180	-45	4212618
RH-11-14	412122.9	5334176.6	404.2	180	180	-45	4212618
RH-11-15	411973.8	5334224.6	404.2	195	180	-45	4212618
RH-11-16	411820.8	5334285.0	404.3	187	180	-45	4212618
RH-11-17	411649.9	5334340.0	410.0	201	180	-45	4212618
RH-11-18	413325.4	5334165.6	447.8	120	180	-45	3010209
RH-11-19	413178.4	5333924.0	437.4	57	180	-45	3010209
RH-11-20	413178.8	5334146.4	439.6	102	0	-90	3010209
RH-11-21	413479.1	5334151.1	442.0	108	180	-45	3010209
RH-11-22	413008.1	5334248.4	443.9	351	180	-45	3010209

The high magnetic intensity of the Radio Hill iron deposit required that drill holes be set up and aligned with an Azimuth Pointing System (APS) rented from Reflex instruments of Timmins Ontario. The Azimuth Pointing System (APS) is a GPS based compass that provides a True North Azimuth measurement and position. Since the APS is not using the earth's magnetic field to determine the azimuth, it is not affected by ferrous anomalies (metal) from the ground or surrounding structures. The APS uses two antennas to calculate an azimuth solution. Orbit drilling and Doug Bryant aligned the drill rig at an azimuth of 180 degrees (due south) employing the APS instrument.

During drilling downhole surveying was conducted utilizing a Reflex EZ-Shot®, an electronic single shot instrument. It accurately measures six parameters in one single shot; azimuth, inclination, magnetic tool face angle, gravity roll angle, magnetic field strength and temperature. Single shot tests were taken 15 m or so below the casing and every 50 m down the drill hole. As a result of the magnetic environment at the Radio Hill deposit the azimuth readings were discarded.

Logging of the core was carried out at the Rogue Iron Ore Corp office/core facility located in Timmins, Ontario. The drill logs with assay results for the 2011 holes along with updated logs for RH08-1, RH08-2 and RH10-01 are found in Appendix C. The following geological legend was utilized by the core logging geologists on the project.

**Table 3 Radio Hill Property 2011 Geological Legend**

SLC	Lean Chert		Chert beds containing <15% magnetite/hematite. Magnetite may be disseminated and/or in thinly layered beds. Minerals are fine-grained to aphanitic.
IF-G	Sulphide Formation	Iron	Iron formation replacement partly or totally by sulphide minerals. Sulphides comprised of pyrite and/or pyrrhotite in along bedding or forming replacement texture along magnetite bed borders. Might also comprise veins or cross-cutting features.
IF-H	Siderite Iron Formation		Chert comprised of alternating bands of quartz and siderite bands. Siderite is beige to off white in color and softer. Siderite reacts poorly to HCl.
IF-F	Iron Formation		Iron formation containing 15% to 50% magnetite alternating with gray to white chert. Rock is fine-grained to aphanitic.
IF-E	Iron Formation		Iron formation with magnetite >50%. Alternating beds of chert and magnetite of massive magnetite.
SC	Chert		Grayish to white fine-grained to silica rich rock. Massive siliceous beds. Chert might contain certain among of carbonates (Dolomite and/or limestone).

## **ANALYTICAL TECHNIQUES AND RESULTS**

A total of 757 samples of drill core were selected for iron ore analysis by the core logging geologists from holes RH-11-01 to 22, RH-08-1, RH-08-2 and RH-10-01 (see Table 4 below).

**Table 4 Pre2011 Diamond Drill Holes sampled for Iron Ore**

Hole Name	Easting NAD 83	Northing NAD 83	Elevation	Azimuth	Dip	Length	Claim No.
RH-08-01	413017.1	5334102.4	443.6	181	-45	300	3010209
RH-08-02	413030.3	5334339.2	443.0	177	-45	300	3010209
RH-10-01	412750.2	5334263.0	440.0	180	-50	446	3010209

All selected NQ drill core was split in half by a hydraulic core splitter and a half bagged with the first part of a three-part assay tag bearing a unique identifier number. The other half of the core was stored at the logging facility with the second part of the three part assay tag bearing an identical unique identifier number placed in the core box at the beginning of the sample interval. Records of the sampled intervals and sample numbers were recorded in the computerized drill logs, and the third part of the assay tag was filed. The majority of the drill core samples were 6 m in core length, and ranged from 1.5 to 6 m. The remaining drill core is presently stored at the Rogue Iron Ore Corp office/core Facility in Timmins.

The drill core samples were collected by Manitoulin Transport at the Rogue Iron Ore Corp office/core facility in Timmins and transported securely to the SGS Prep Laboratory in Sudbury. There the drill core samples were crushed and pulverized. Then the pulp samples were shipped to the SGS metallurgical laboratory in Lakefield Ontario, where all the 757 samples selected for iron ore analysis were firstly analyzed by fusion with lithium tetraborate-XRF for SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub>, MgO, CaO, Na<sub>2</sub>O, K<sub>2</sub>O, TiO<sub>2</sub>, P<sub>2</sub>O<sub>5</sub>, MnO, Cr<sub>2</sub>O<sub>3</sub>, V<sub>2</sub>O<sub>5</sub> and retained moisture (LOI) by multi-temperature. This was followed by Sulphur and sulphide analysis, which involves a 0.2 gram pulp sample being leached with a sodium carbonate (Na<sub>2</sub>CO<sub>3</sub>) solution to dissolve the soluble sulphate. The solution is filtered and submitted to the ion chromatography operator for analysis of SO<sub>4</sub>. The residue from this leach is analyzed by IR instrument for total sulphur and reported as sulphide. In addition, Satmagan Magnetic Fe% and Fe<sub>3</sub>O<sub>4</sub> readings were done on each sample.

A magnetite concentrate for some holes (RH08-01, RH08-02, RH10-01, RH11-14 and RH11-15) was produced using Davis Tube concentrator (DT) giving a weight recovery percentage (DTWR). The DT concentrate in holes RH08-01 and RH08-02, was then analysed by XRF for SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, CaO, Fe<sub>2</sub>O<sub>3</sub>, K<sub>2</sub>O, MgO, TiO<sub>2</sub>, P, Mn and Cr<sub>2</sub>O<sub>3</sub> and retained moisture (LOI) by multi-temperature. The company inserted systematic duplicates, blanks and standard samples every 30 samples to verify and assure acceptable consistency of analysis.



**Table 5 2011 Radio Hill Diamond Drilling Iron Ore Results**

Hole Name	From	To	Core length (m)	SiO2 %	Fe2O3 %	Fe3O4 %	DT Wrec %	Fe % DTC	SiO2 % DTC
RH-08-01	11	36	25	53.26	40.80	11.38	13.08	69.64	5.12
RH-08-01	72	213	141	48.56	40.64	25.07	27.13	86.71	6.84
RH-08-02	156	160.5	4.5	41.9	43	17.5	23.1	97	4.94
RH-10-01	71	425	354	50.72	40.22	27.09	30.47		
RH-11-01	15	75	60	48.74	39.54	11.26			
RH-11-02	12	66	54	44.96	46.65	31.24			
RH-11-03	10	167.75	157.75	51.11	35.86	20.22			
RH-11-03	213.9	235.47	21.57	44.92	45.28	31.87			
RH-11-03	292.34	333.6	41.26	46.26	46.16	35.91			
RH-11-04	111.36	143.55	32.19	45.03	42.36	22.67			
RH-11-05	195	303	108	51.04	37.07	20.94			
RH-11-06	96.09	260.2	164.11	51.74	37.89	24.22			
RH-11-07	71.5	90	18.5	47.54	41.26	20.41			
RH-11-07	153	210	57	44.55	46.08	34.26			
RH-11-08	29.85	78	48.15	47.53	40.82	26.04			
RH-11-09	20.8	113.5	92.70	49.37	37.52	26.07			
RH-11-10	9	180.06	171.06	50.19	42.15	27.18			
RH-11-11	162.61	312.4	149.79	47.85	45.50	33.41			
RH-11-12	24.5	53.96	29.46	47.47	46.45	37.39			
RH-11-13	195.24	294.92	99.68	47.93	40.61	22.28			
RH-11-14	31.4	54	22.6	50.59	41.59	30.93	35.20		
RH-11-14	63.56	138.56	75	47.72	46.05	34.94	33.00		
RH-11-15	18	52.1	34.1	45.70	42.20	22.27	24.03		
RH-11-15	94.65	156.21	76.56	47.98	41.15	25.01	25.79		
RH-11-16	11.12	99	87.88	51.21	43.31	23.61			
RH-11-17	78	175.5	97.5	50.82	37.79	17.95			
RH-11-18	24	68.85	44.85	48.35	46.55	37.98			
RH-11-20	12	21.93	9.93	50.19	38.66	24.45			
RH-11-22	15.6	333.9	318.3	49.98	40.22	30.1			

In addition to iron ore analysis, a total of 50 separate samples were sent for gold analysis and 14 of these samples were also analysed for nickel and copper. This separate analysis was also conducted at the SGS metallurgical laboratory in Lakefield Ontario. No significant gold, nickel or copper values were obtained from this analysis (See Appendix B).

All official laboratory certificates for assaying conducted on the drill core of the 2011

diamond drilling program are found in Appendix D.

### **CONCLUSION AND RECOMMENDATIONS**

The 2011 diamond drill holes intersected significant lengths of iron formation in the Radio Hill iron deposit. Both F and E type iron formation were cut and it appears these types were the bulk of the historical resource estimation on the Radio Hill iron deposit.

The sampling for iron ore of three previous Rogue diamond drill holes sunk on the Radio Hill Iron deposit returned 40.6% total iron ( $\text{Fe}_3\text{O}_4$ ) over 141 m from hole RH-08-01 and 40.2% total iron over 354 m from hole RH-10-01 (27.1% and 30.5% iron Davies Tube weight recovery respectively). These two holes are from the eastern side of the Radio Hill Iron deposit.

The 2011 diamond drilling program intersected significant iron ore results such as 37.9% total iron over 164 m from hole RH-11-06, 42.2% total iron over 171 m from hole RH-11-10, and 45.5% total iron over 149.8 m from hole RH-11-11. These three holes are from the central portion of the Radio Hill Iron deposit.

The objective of the Radio Hill diamond drilling program was to carry out an updated 43-101 compliant resource estimate on the Radio Hill iron deposit. The necessary amount of drilling was not completed at the end of 2011 and so the program is on-going as January 9, 2012.

Expenditures for the analytical analysis of drill core in 2011 and the remaining portion of the 2011 diamond drilling program totalled \$ 720,288 (see Appendix A).

## **REFERENCES**

Ayer, J.A.

1995 Precambrian geology, northern Swayze greenstone belt; Ontario Geological Survey, Report 297, 57p.

Hartley, C.

2008 Report on Diamond Drilling for Golden Chalice Resources on the Timmins West Project, Porcupine Mining Division, Northeastern Ontario.

Montgomery, K. and Sparling, G.

2008 Report of Geological mapping and mechanical stripping on Golden Chalice Resources, Radio Hill Property, Timmins West Project, Porcupine Mining Division, Northeastern Ontario.

Montgomery, K.

2011 Report of drill hole RH10-01, Rogue Iron Ore, Radio Hill Property, Timmins West Project, Porcupine Mining Division, Northeastern Ontario.

Montgomery, K.

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Shoemaker Jr., S. J. Johnson R., Mariani R.,

2010 Technical Report on The Radio Hill Iron Property Timmins Area, Ontario, Canada, Golden Chalice Resources Inc., Figure 11-1.

**CERTIFICATE OF QUALIFICATIONS**

I, J. Kevin Montgomery, of the City of Timmins, Province of Ontario, do hereby certify that:

- (1) I am a professional Consulting Geologist, residing at 1190 Lozanne Crescent, Timmins Ontario, P4P 1E8.
- (2) I hold a B.Sc. Honours degree in Geological Sciences (1984) from Queen's University of Kingston, Ontario and a M.Sc.(App.) in Mineral Exploration (1987) from McGill University at Montreal, Quebec.
- (3) I am a registered professional geoscientist with the Association of Professional Geoscientists of Ontario.
- (4) This report is based on my supervision of the diamond drilling program on the Radio Hill Property in 2011.
- (5) I have no personal interest in the property covered by this report.
- (6) Permission is granted for the use of this report, in whole or in part, for assessment and qualification requirements but not for advertising purposes.

Dated at Timmins, Ontario  
This 18th day of August, 2012.

J. Kevin Montgomery, P.Geo., M.Sc. (App..)



## APPENDIX A CERTIFICATE OF EXPENDITURES

Rogue Iron Ore Inc.  
Radio Hill Property  
Porcupine Mining Division  
Diamond Drilling Program Expenditures

### Drilling Expenditures October 1 to December 30, 2011

Core Drilling	\$ 422,993.86
Geologists	\$ 85,433.00
Senior Field Technician	\$ 30,510.00
Travel & Accommodation	\$ 22,595.64
Field Supplies (includes Truck Fuel)	\$ 11,166.94
<b>TOTAL</b>	<b>\$ 572,699.44</b>

### Assaying Expenditures October 1 to December 30, 2011

Core Splitting Technician	\$ 18,300.00
Transportation of samples to the lab	\$ 3,501.79
Lab Analysis	\$ 120,928.21
<b>TOTAL</b>	<b>\$ 142,730.00</b>

### Report Writing & Drafting of Maps June/July 2012

**TOTAL \$ 4,859.00**

**TOTAL \$ 720,288.00**

### Drilling Distribution of Expenditures per Claim

Claim 3010209 2367 m drilled on claim (82.5 %)	\$ 472,477
Claim 4212618 495 m drilled on claim (17.5%)	\$ 100,222

### Assaying & Report Distribution of Expenditures per Claim

Claim 3010209 36634 m assayed on claim (80 %)	\$ 118,071
Claim 4212618 908 m assayed on claim (20%)	\$ 29,518

Certified by:

*J Kevin Montgomery*

Date: August 18, 2012

Note: This certificate has been constructed from the invoices submitted to Rogue Iron Ore.

## APPENDIX B Gold, Copper and Nickel Results

Sample ID	Hole	From	To	Au g/t	Cu g/t	Ni g/t	Cu %	NI%
12901	RH-11-05	15.75	16.5	0.03	1360	48	0.136	0.0048
12902	RH-11-05	16.5	17.9	0.04	847	56	0.0847	0.0056
12903	RH-11-05	23.2	24.75	0.03	597	49	0.0597	0.0049
12904	RH-11-05	24.75	25.83	0.01	414	26	0.0414	0.0026
12905	RH-11-05	25.83	27.2	0.02	754	100	0.0754	0.01
12906	RH-11-05	39.7	40.9	0.02	548	42	0.0548	0.0042
12907	RH-11-05	45.55	47.3	0.02	944	50	0.0944	0.005
12951	RH-11-15	174.8	175.8	< 0.02	< 0.5	< 20		
12952	RH-11-15	175.8	176.8	0.02	< 0.5	< 20		
12953	RH-11-15	176.8	177.85	0.03	< 0.5	< 20		
12954	RH-11-15	177.85	178.85	0.04	< 0.5	< 20		
12955	RH-11-15	178.85	179.85	0.04	< 0.5	< 20		
12956	RH-11-15	179.85	180.85	0.02	< 0.5	< 20		
12957	RH-11-15	180.85	181.8	< 0.02	< 0.5	< 20		
12958	RH-11-13	114.22	114.9	< 0.02				
12959	RH-11-13	114.9	115.9	0.02				
12960	RH-11-13	115.9	116.7	< 0.02				
12961	RH-11-13	116.7	117.7	< 0.02				
12962	RH-11-13	147.08	148.08	< 0.02				
12963	RH-11-13	148.08	149.08	0.04				
12964	RH-11-13	149.08	150.08	< 0.02				
12965	RH-11-13	150.08	151.08	< 0.02				
12966	RH-11-13	151.08	152.08	< 0.02				
12967	RH-11-13	153	154	0.03				
12968	RH-11-13	154	155	0.03				
12969	RH-11-13	155	156	< 0.02				
12970	RH-11-13	156	157	< 0.02				
12971	RH-11-13	57.3	58.8	< 0.02				
12972	RH-11-13	58.8	60.3	< 0.02				
12973	RH-11-13	60.3	61.8	< 0.02				
12974	RH-11-13	61.8	63.3	< 0.02				
12975	RH-11-13	63.3	64.8	< 0.02				
12976	RH-11-13	64.8	66.3	< 0.02				
12977	RH-11-13	66.3	67.8	< 0.02				
12978	RH-11-13	67.8	69.3	< 0.02				
12979	RH-11-13	69.3	70.8	0.03				

<b>Sample ID</b>	<b>Hole</b>	<b>From</b>	<b>To</b>	<b>Au g/t</b>
12981	RH-11-13	72.3	73.8	< 0.02
12982	RH-11-13	73.8	75.3	< 0.02
12983	RH-11-13	75.3	76.8	< 0.02
12984	RH-11-13	76.8	78.3	< 0.02
12985	RH-11-13	78.3	79.8	< 0.02
12986	RH-11-13	79.8	81.3	< 0.02
12987	RH-11-13	81.3	82.8	< 0.02
12988	RH-11-13	82.8	84.3	< 0.02
12989	RH-11-13	84.3	85.8	< 0.02
12990	RH-11-13	85.8	87.3	< 0.02
12991	RH-11-13	87.3	88.8	< 0.02
12992	RH-11-13	88.8	90.3	< 0.02
12993	RH-11-13	90.3	91.93	< 0.02

**APPENDIX C Drill Hole Logs**



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-08-01

<b>Easting:</b> 413017.10	<b>Northing:</b> 5334102.40	<b>Elevation:</b> 443.60
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 181.00	<b>Dip:</b> -45.00	<b>Length:</b> 300.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b>	<b>Contractor:</b>
<b>Started:</b> 2/05/2008	<b>Finished:</b> 6/05/2008	<b>Logged By:</b> K.Sarabia
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
0.00	0.00	0.00	0.00	EZ Shot	Active

End of Deviations ; 1 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
0	0.00	11.00	OVB - No core recovered																	
0	11.00	32.70	IF-F - Iron formation with 25-30% Mgt-Hem, strong oxidized zone with rusty colors and boxworks.	144001 144002 144003 144004	11.00 18.00 24.00 30.00	18.00 24.00 30.00 32.70	7.00 6.00 6.00 2.70	50.90 60.00 56.20 49.30	0.98 0.86 0.28 0.89	43.40 35.10 39.30 44.90	0.16 0.08 0.03 0.05	0.05 0.03 0.03 0.02	0.02 0.02 0.01 0.01	0.01 0.01 0.01 0.01	0.02 0.02 0.01 0.01	0.04 0.06 0.21 0.14	0.01 0.01 0.01 0.01	0.01 0.02 0.04 0.01	0.01 0.01 0.01 0.01	0.09 0.19 0.03 0.03
0	32.70	48.00	IF-G - Iron formation with 40% hem-mgt and 5% sulphides. Highly oxidized with some boxworks. Mgt-Hem injected in fractures. White to rusty chert.	144005 144006 144007	32.70 36.00 42.00	36.00 42.00 48.00	3.30 6.00 6.00	43.90 52.90 55.10	0.34 0.58 2.29	45.00 39.90 30.00	1.05 0.22 1.05	0.14 0.05 0.11	0.01 0.01 0.01	0.01 0.01 0.02	0.01 0.01 0.07	0.04 0.08 0.05	0.05 0.01 0.07	0.01 0.01 0.01	0.01 0.01 0.01	0.40 0.42 3.23
0	48.00	51.30	VQ - Quartz vein with sulfides (Py) fine disseminated, Minnesotaitite + FeOx + Mgt are presented in some bands and also veinlets.	144009	48.00	54.10	6.10	55.90	2.63	28.60	1.55	0.13	0.02	0.03	0.09	0.04	0.10	0.01	0.01	5.20
1	51.30	54.10	CIS - Shear Zone- Chl + Minnesotaitite + sulfides up to 15% in fractures + veinlets, milled and sheared core. Weak magnetism. Vuggy Qtz.																	
0	54.10	72.50	IF-G - Iron formation with sulfides (Py) disseminated in veinlets and fractures up to 20-25% and up to 45% in isolated layers, soft texture in presence of micas and silicified texture in the cherty layers. Weak to strong magnetism. Magnetite is presented in fragments and bands. Siderite is also observed in veinlets and fractures.	144010 144011 144012 144013	54.10 60.00 66.00 72.00	60.00 66.00 72.00 75.00	5.90 6.00 6.00 3.00	65.80 80.80 70.70 61.00	1.06 0.82 0.97 1.21	22.40 12.90 19.00 28.00	1.38 0.68 1.22 2.00	0.18 0.08 0.16 0.29	0.01 0.02 0.01 0.02	0.02 0.01 0.02 0.09	0.06 0.04 0.04 0.05	0.07 0.04 0.04 0.07	0.09 0.02 0.07 0.10	0.02 0.03 0.03 0.01	0.01 0.01 0.01 0.01	2.40 1.54 1.27 1.56
1	72.50	74.70	CIS - Shear Zone, soft texture,																	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
			Chlorite + Minnesotaite + sulfides fine disseminated in veinlets and fractures. Strong magnetism in bands with Mgt, deformation is also present and observed in the bedding.																		
0	74.70	87.50	IF-E - Strong magnetism in the fine banded core, sulfides trace up to less than 2%, moderate to strong silicification, FeOx trace, veinlets + Siderite + FeOx + Minnesotaite. Micro-faults and deformed bedding are also observed. Good recovery.	144014 144016	75.00 81.00	81.00 87.50	6.00 6.50	52.70 51.40	0.21 0.36	41.30 41.40	2.18 1.62	0.83 0.89	0.01 0.02	0.12 0.14	0.01 0.01	0.14 0.18	0.08 0.07	0.01 0.01	0.01 0.01	0.11 0.10	
0	87.50	92.20	IDB - Diabase intrusif, fine grained texture, FeOx trace, altered Pgl, veinlets + rusty Sulfides trace. Very broken core, bad recovery	144017	87.50	92.20	4.70	60.80	16.40	8.90	3.11	0.52	2.96	2.14	0.70	0.32	0.03	0.02	0.01	0.03	
0	92.20	98.50	IF-E - Strong magnetism present in the bands with Mgt and moderate in the rest of the bands, FeOx trace, Siderite trace to 2%, 10 cm of a dike, sulfides fine disseminated trace in a isolated zone at the lower contact with an mafic intrusif.	144018	92.20	98.50	6.30	49.10	0.86	42.90	1.71	0.68	0.03	0.24	0.04	0.17	0.09	0.01	0.01	0.22	
1	98.50	99.60	IDB - fine grained rock, altered Plg, FeOx trace, weak magnetism in a isolated layer + sulfides fine disseminated (Py/Po), Mgt trace.	144019	98.50	105.00	6.50	58.90	4.28	27.80	2.63	0.48	0.19	0.45	0.21	0.30	0.09	0.01	0.01	0.63	
0	99.60	103.50	IF-G - Fine to very fine grained and vuggy Qtz texture, strong magnetism, Sulfides fine																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	S %
1	103.50	105.80	disseminated in veinlets and near to the Mgt layers, Minnesotaite trace to 5%, Chlorite trace to 2%, FeOx trace. A mafic intrusif is present n this interval (Diabase).  HBX - Strong magnetism in fragments + bands (deformed) with Mgt, Minnesotaite and Siderite trace, sulfides trace to 3%, brecciated texture, silicified core.	144020	105.00	111.00	6.00	61.80	0.87	28.80	1.48	0.21	0.02	0.23	0.04	0.08	0.08	0.01	0.01	0.88
0	105.80	118.00	IF-E - strong zone of deformation, the upper contact has a brecciated texture + a sheared layer: Chlorite + sulfides + Minnesotaite + Mgt trace are observed in this zone. Py fine disseminated in fractures + veinlets up to 5-8%, silicified core and FeOx trace.	144021 144022	111.00 117.00	117.00 123.00	6.00 6.00	50.80 50.20	0.30 3.01	41.20 31.10	1.79 3.37	0.25 0.57	0.01 0.03	0.13 0.15	0.02 0.17	0.08 0.26	0.07 0.11	0.01 0.01	0.01 0.01	0.31 0.32
1	118.00	119.50	IDB - weak magnetism in fractured planes, veinlets with FeOx trace.																	
0	119.50	123.00	IF-H - Zone a Chert + Siderite, Minnesotaite up to 2%, Magnetite trace to 15%, mm-tric to cm-tric bands + Mgt.																	
1	123.00	125.30	IF-F - Strong to moderate magnetism, Inrusif of 60 cm is present in this interval, banded are deformed and folded, sulfides fine disseminated in veinlets + fractures up to 10%.	144023	123.00	129.00	6.00	42.90	1.17	39.30	2.23	0.48	0.02	0.07	0.08	0.15	0.07	0.02	0.01	0.80
1	125.30	125.90	VQ																	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
0	125.90	131.85	- FeOx trace, Py fine disseminated up to 20% in fractures. IF-F - deformed Zone, Siderite up to 5-8%	144024	129.00	135.00	6.00	45.00	0.13	38.50	2.06	0.46	0.01	0.03	0.01	0.12	0.07	0.01	0.01	0.27
0	131.85	136.30	IF-H - Chert + Siderite Zone, Deformation is present in the bedding.	144025	135.00	139.00	4.00	56.10	0.39	26.80	2.34	0.24	0.01	0.02	0.02	0.05	0.21	0.02	0.01	2.16
2	136.30	136.80	VQ - strong sulfides presence in the fractures and veinlets u to 30%																	
1	136.80	138.10	IF-H - Chert + Siderite bands, strong magnetism in banded layers + Mgt, FeOx trace.																	
1	138.10	139.10	VQ - Qz vein with sulfides fine disseminated up to 15%	144026	139.00	141.00	2.00	54.70	0.32	27.30	2.44	0.40	0.01	0.03	0.02	0.12	0.16	0.02	0.01	0.27
1	139.10	141.00	IF-F - Iron Formation with strong Oxidation, low magnetism, Minnesotaite and FeOx trace, sulfides trace, deformed bands.																	
0	141.00	145.30	IF-G - sulfides up to 10-15% filling fractures and weakness planes and up to 35% in the bottom, Siderite up to 10% and Mgt up to 25%.	144027	141.00	145.30	4.30	45.20	0.10	39.30	1.88	0.30	0.02	0.02	0.01	0.07	0.08	0.01	0.01	0.97
0	145.30	179.10	IF-F	144028	145.30	150.00	4.70	40.80	0.18	49.10	1.28	0.34	0.01	0.02	0.01	0.08	0.02	0.01	0.01	0.21

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
1	179.10	181.00	- Iron formation with Jasper and siderite in some bands. Mgt up to 45-50%, jasper up to 15-20% at 164.5m, random oriented bands and they are also deformed, sulfides fine disseminated and cubic crystals trace isolated near to the Jasper bands, minnesotaite trace, strong magnetism in blackish bands and moderate in dark gray bands.	144029	150.00	156.00	6.00	46.10	0.07	45.80	1.14	0.18	0.01	0.02	0.01	0.08	0.02	0.02	0.01	0.37
				144030	156.00	162.00	6.00	40.50	0.07	49.90	1.33	0.20	0.01	0.02	0.01	0.07	0.02	0.01	0.01	0.39
				144031	162.00	168.00	6.00	45.80	0.03	50.70	0.89	0.14	0.01	0.01	0.01	0.08	0.02	0.01	0.01	0.09
				144032	168.00	174.00	6.00	44.00	0.02	49.20	1.19	0.20	0.01	0.01	0.01	0.06	0.02	0.01	0.01	0.08
				144033	174.00	180.00	6.00	43.40	0.02	50.30	1.02	0.19	0.01	0.01	0.01	0.08	0.02	0.01	0.01	0.09
1	179.10	181.00	IF-H - Chert + Siderite bands with moderate alteration (FeOx), sulfides trace up to 3%, weak magnetism.	144034	180.00	186.00	6.00	45.10	0.07	48.80	1.06	0.13	0.01	0.01	0.01	0.05	0.03	0.01	0.01	0.46
0	181.00	206.00	IF-F - Deformed bands, some bands have Siderite up to 10%, Minnesotaite trace, Jasper up to 5% and Hematite up to 3%, Mgt is very fine grained, FeOx trace near to the mgt bands, sulfides are isolated and fine disseminated in fractures and veinlets up to 8%, cubis Pyrite is also present in fractured planes. 40cm of a volcanic rock with a strong Chlorite alteration.	144035	186.00	192.00	6.00	44.70	0.40	50.10	1.43	0.23	0.01	0.01	0.03	0.14	0.03	0.01	0.01	0.40
				144036	192.00	198.00	6.00	44.90	0.31	48.70	1.56	0.27	0.04	0.04	0.04	0.10	0.04	0.01	0.01	0.17
				144037	198.00	204.00	6.00	47.20	0.10	48.30	1.04	0.15	0.01	0.04	0.02	0.07	0.03	0.04	0.01	0.10
				144038	204.00	207.00	3.00	43.40	0.06	46.50	1.56	0.27	0.01	0.03	0.01	0.08	0.03	0.02	0.01	0.35
0	206.00	213.00	IF-H - Chert + Siderite + Minnesotaite trace bands, moderate to low FeOx, Mgt up to 10%. , strong magnetism only in the blackish bands, micro brecciated texture in some layers.	144039	207.00	213.00	6.00	45.30	1.35	35.30	2.32	0.64	0.01	0.10	0.07	0.11	0.07	0.01	0.01	0.81
0	213.00	228.00	IF-G - Chert + sulfides +Mgt and strong FeOx. Hydrothermal Zone, Strong % of sulfides present in cavities up to 20%, Chlorite alteration at the lower contact where magnetism is low. Shear Zone : chlorite in	144041	213.00	219.00	6.00	54.50	3.09	27.70	1.97	0.22	0.02	0.23	0.15	0.12	0.06	0.02	0.01	4.09
				144042	219.00	225.00	6.00	56.70	10.80	21.00	2.39	0.16	0.05	1.36	0.45	0.10	0.08	0.02	0.01	1.22
				144043	225.00	231.00	6.00	61.90	17.40	8.69	1.61	0.35	0.24	4.38	0.68	0.11	0.06	0.02	0.02	0.57



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	228.00	252.80	fractured planes, the vuggy Qz texture have been replaced by CaCO3, bad recovery in this section. SM - sedimentary banded core, very fine grained, alternation of blackish and dark grayish bands, weak to none magnetism, sulfides up to 10% in fractured planes, fractures and veinlets cross-cutting the banding. Moderate FeOx presence, foliation is almost vertical, some intervals present a intermediate intrusif rock (10 to 40 cm). Moderate to low silicification, chlorite alteration. Moderate to strong CaCO3 is present in veinlets + Sulfides, fractures and in the groundmass of the intrusif rock.	144044 144045 144046 144047	231.00 237.00 243.00 249.00	237.00 243.00 249.00 252.80	6.00 6.00 6.00 3.80	61.40 60.40 60.90 58.90	17.70 16.80 15.60 16.40	7.19 8.49 8.60 9.71	1.37 1.55 1.81 1.91	1.45 1.92 2.01 1.98	1.47 1.79 2.35 2.15	3.82 3.15 2.43 2.56	0.68 0.69 0.65 0.68	0.08 0.10 0.12 0.09	0.06 0.10 0.10 0.09	0.02 0.02 0.02 0.03	0.02 0.02 0.02 0.02	0.20 0.45 0.28 0.79	
0	252.80	257.00	IDD - Intermediate dike, sharp contact with the upper and lower section, sulfides and FeOx trace up to 2%, none to weak magnetism.																		
0	257.00	300.00	VB - fine to very fine grained mafic volcanic rock, bleached core, medium green-apple to lime green, subangular fragments of chert (mm'tric), at the upper contact CaCO3 present in fractures, matrix and clast, altered siderite bands, chert is color pale gray. Tuff layers have mm'tric and sub-angular fragments of chlorite, Plagioclase and Quartz. We have a chlorite + epidote + CaCO3 alteration in the core and some fragments, at 275.6 the texture of the core is more brecciated, some clast mm'tric and fragments can be mm'tric to cm'tric and they have a sub-																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
			rounded to su-angular shape. Sulfides are present inside the clast, in fractures and cross-cutting veinlets. Veinlets + fractures and the groundmass in brecciated core are filled with calcite. The lower contact has less Epidote alteration and moderate presence of veinlets with CaCO3, sulfides trace.																		

End of Lithology and Assays ;

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	%ces>100	Calcu	RQP	%ces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%			%								
11.00	12.00	1.00	0.90	90.00	0.90	1.80	1.00	0.00	0.00	0.00	0.00	0.00	0.00	extremely fractured core
12.00	15.00	3.00	0.00	0.00	2.70	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	extremely fractured core
15.00	18.00	3.00	0.00	0.00	2.48	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	extremely fractured core
18.00	21.00	3.00	0.00	0.00	2.44	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	extremely fractured core
21.00	24.00	3.00	0.00	0.00	1.80	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	extremely fractured core
24.00	27.00	3.00	0.00	0.00	1.46	0.00	1.40	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
27.00	30.00	3.00	0.00	0.00	1.23	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
30.00	33.00	3.00	0.00	0.00	1.44	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
33.00	36.00	3.00	0.00	0.00	1.58	0.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
36.00	39.00	3.00	0.00	0.00	1.94	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	very fractured core
39.00	42.00	3.00	0.00	0.00	1.73	0.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00	very fractured core
42.00	45.00	3.00	0.00	0.00	1.73	0.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
45.00	48.00	3.00	0.00	0.00	1.92	0.00	1.70	0.00	0.00	0.00	0.00	0.00	0.00	very fractured core
48.00	51.00	3.00	0.00	0.00	2.64	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	very fractured core
51.00	54.00	3.00	0.00	0.00	2.43	0.00	2.10	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
54.00	57.00	3.00	0.00	0.00	1.53	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	mechaninc fractures
57.00	60.00	3.00	0.00	0.00	1.58	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
60.00	63.00	3.00	0.00	0.00	1.60	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	fractured planes
63.00	66.00	3.00	0.00	0.00	1.14	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
66.00	69.00	3.00	0.00	0.00	1.60	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
69.00	72.00	3.00	0.00	0.00	1.40	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
72.00	75.00	3.00	0.00	0.00	1.22	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	upper layer fractured core
75.00	78.00	3.00	0.00	0.00	0.30	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
78.00	81.00	3.00	0.00	0.00	0.30	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractues
81.00	84.00	3.00	0.00	0.00	1.74	0.00	2.65	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
84.00	87.00	3.00	0.00	0.00	0.40	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
87.00	90.00	3.00	0.00	0.00	2.50	0.00	1.65	0.00	0.00	0.00	0.00	0.00	0.00	very fractured core- bad recovery

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	%ces>100	Calcu	RQP	%ces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%			%								
90.00	93.00	3.00	0.00	0.00	2.55	0.00	1.80	0.00	0.00	0.00	0.00	0.00	0.00	extremely fractured core- bad recovery
93.00	96.00	3.00	0.00	0.00	0.90	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
96.00	99.00	3.00	0.00	0.00	1.10	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
99.00	102.00	3.00	0.00	0.00	1.43	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
102.00	105.00	3.00	0.00	0.00	1.30	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
105.00	108.00	3.00	0.00	0.00	1.30	0.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00	fractured and milled core
108.00	111.00	3.00	0.00	0.00	0.72	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
111.00	114.00	3.00	0.00	0.00	0.50	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
114.00	117.00	3.00	0.00	0.00	0.55	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures- broken core
117.00	120.00	3.00	0.00	0.00	1.40	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
120.00	123.00	3.00	0.00	0.00	0.60	0.00	2.65	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
123.00	126.00	3.00	0.00	0.00	0.72	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
126.00	129.00	3.00	0.00	0.00	0.55	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
129.00	132.00	3.00	0.00	0.00	0.55	0.00	2.62	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
132.00	135.00	3.00	0.00	0.00	0.27	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
135.00	138.00	3.00	0.00	0.00	0.90	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
138.00	141.00	3.00	0.00	0.00	1.53	0.00	2.65	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
141.00	144.00	3.00	0.00	0.00	1.55	0.00	2.65	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
144.00	147.00	3.00	0.00	0.00	0.80	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
147.00	150.00	3.00	0.00	0.00	0.50	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
150.00	153.00	3.00	0.00	0.00	0.85	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
153.00	156.00	3.00	0.00	0.00	0.25	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
156.00	159.00	3.00	0.00	0.00	0.55	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
159.00	162.00	3.00	0.00	0.00	0.85	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
162.00	165.00	3.00	0.00	0.00	0.60	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
165.00	168.00	3.00	0.00	0.00	0.55	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
168.00	171.00	3.00	0.00	0.00	0.45	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures

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**RQD:**

From	To	length	%ces>100	Calcu	RQP	%ces<100	talReco	Recovery	Fractures	sacts/Leng	Veins	ains/Leng	Angle	Description
			%			%								
171.00	174.00	3.00	0.00	0.00	0.20	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
174.00	177.00	3.00	0.00	0.00	0.70	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
177.00	180.00	3.00	0.00	0.00	0.90	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
180.00	183.00	3.00	0.00	0.00	1.30	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	very fractured core
183.00	186.00	3.00	0.00	0.00	0.80	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
186.00	189.00	3.00	0.00	0.00	0.60	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
189.00	192.00	3.00	0.00	0.00	0.65	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
192.00	195.00	3.00	0.00	0.00	0.55	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
195.00	198.00	3.00	0.00	0.00	0.70	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
198.00	201.00	3.00	0.00	0.00	0.85	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
201.00	204.00	3.00	0.00	0.00	1.50	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	very fractured core
204.00	207.00	3.00	0.00	0.00	0.45	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
207.00	210.00	3.00	0.00	0.00	1.15	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
210.00	213.00	3.00	0.00	0.00	0.90	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
213.00	216.00	3.00	0.00	0.00	1.50	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
216.00	219.00	3.00	0.00	0.00	1.55	0.00	1.90	0.00	0.00	0.00	0.00	0.00	0.00	very fractured core-shear zone
219.00	222.00	3.00	0.00	0.00	2.05	0.00	2.05	0.00	0.00	0.00	0.00	0.00	0.00	very fractured core
222.00	225.00	3.00	0.00	0.00	1.50	0.00	2.05	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
225.00	228.00	3.00	0.00	0.00	2.05	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	very fractured core- CaCO3 dissolution
228.00	231.00	3.00	0.00	0.00	1.10	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
231.00	234.00	3.00	0.00	0.00	0.60	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
234.00	237.00	3.00	0.00	0.00	0.30	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
237.00	240.00	3.00	0.00	0.00	0.25	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
240.00	243.00	3.00	0.00	0.00	0.55	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
243.00	246.00	3.00	0.00	0.00	0.70	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
246.00	249.00	3.00	0.00	0.00	0.80	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
249.00	252.00	3.00	0.00	0.00	0.55	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	fractured core



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	%ces>100	Calcu	RQP	%ces<100	tal	Recover	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%			%									
252.00	255.00	3.00	0.00	0.00	1.00	0.00	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
255.00	258.00	3.00	0.00	0.00	0.60	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
258.00	261.00	3.00	0.00	0.00	0.65	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures mechanic fractures mechanic fractures
261.00	264.00	3.00	0.00	0.00	0.30	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
264.00	267.00	3.00	0.00	0.00	0.45	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
267.00	270.00	3.00	0.00	0.00	0.45	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
270.00	273.00	3.00	0.00	0.00	0.25	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
273.00	276.00	3.00	0.00	0.00	0.50	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
276.00	279.00	3.00	0.00	0.00	0.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
279.00	282.00	3.00	0.00	0.00	0.60	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
282.00	285.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
285.00	288.00	3.00	0.00	0.00	0.30	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
288.00	291.00	3.00	0.00	0.00	0.45	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
291.00	294.00	3.00	0.00	0.00	0.30	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
294.00	297.00	3.00	0.00	0.00	0.40	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
297.00	300.00	3.00	0.00	0.00	0.35	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures mechanic fractures

End of RQD ; 97 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
0.00	48.00	Oxidized		
139.10	141.00	Oxidized		

End of Alterations ;            2 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
11.00	32.70	IF-F			20	10	0	0	0	70	1
32.70	48.00	IF-G			20	5	0	10	0	65	1
48.00	51.30	VQ			3	0	0	8	0	89	1
51.30	54.10	CIS	Shear Zone		5	0	2	25	2	71	1
54.10	72.50	IF-G			10		0	15	2	73	0
72.50	74.30	CIS	Shear Zone		5	0	0	2	1	92	1
74.50	87.50	IF-E	Deformed Iron Formation		35	0	0	2	3	60	1
92.20	98.50	IF-E			40%	0	0	1	1	58	1
99.60	103.50	IF-G			25	0	0	10	0	65	1
103.50	105.80	HBX			15	0	0	3	1	81	1
105.80	118.00	IF-E			40	0	0	5	2	53	1
119.50	123.00	IF-H			8	0	0	2	20	70	1
123.00	125.30	IF-F			20	0	0	3	2	75	1
125.90	131.85	IF-F			25	0	0	3	2	70	1
131.85	136.30	IF-H			10	0	0	3	12	75	1
136.30	136.75	VQ			0	0	0	10	0	90	1
136.75	138.10	IF-H			10	0	0	2	13	80	1
139.10	141.00	IF-F			20	0	0	2	1	77	1
141.00	145.30	IF-G			25	0	1	14	10	60	1
145.30	179.10	IF-F			45	1	0	2	5	47	1
179.10	181.00	IF-H			10	0	0	3	5	88	1
181.00	206.00	IF-F			40	1	0	8	2	49	1
206.00	213.00	IF-H			10	0	0	1	5	84	1
213.00	228.00	IF-G			8	0	0	20	1	71	1
228.00	252.80	SM			5	0	0	15	0	80	1

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
252.80	257.00	IDD			0	0	0	3	0	97	1
257.00	300.00	VB			0	0	0	5	0	95	1

End of Mineralizations ; 27 record(s) printed.





*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
0.00	0.00	S0	
15.00	75.00	S0	
20.50	15.00	S0	
28.00	20.00	S0	
36.00	55.00	S0	
39.50	45.00	S0	
55.00	65.00	S0	
56.00	55.00	S0	
62.00	10.00	S0	sulfides fine disseminated // to tis So
63.50	15.00	S0	
82.00	45.00	S0	
84.00	45.00	S0	
87.00	50.00	S0	
92.50	55.00	Cnt	contact with the intrusif rock.
92.70	85.00	S0	
100.00	50.00	Cnt	
101.00	40.00	S0	
114.00	35.00	S0	
126.00	50.00	S0	
132.00	40.00	S0	
134.50	65.00	S0	
135.00	10.00	S0	
135.20	20.00	S0	
146.80	30.00	S0	
147.20	60.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
152.00	15.00	S0	
153.00	30.00	S0	
156.00	5.00	S0	Siderite band
162.00	30.00	S0	Siderite + mgt bands
163.50	45.00	S0	fine bedding = sulfides
165.70	40.00	S0	Jasper // Mgnt bedding
166.70	40.00	S0	Jasper beddind
166.90	45.00	S0	Jasper band
168.00	20.00	S0	Siderite band
168.60	55.00	S0	Mgt band
171.50	60.00	S0	Mgt band
172.00	35.00	VQ	
175.00	55.00	S0	
182.80	40.00	S0	veinlet of Pyrite
183.50	35.00	S0	
190.10	50.00	S0	Jasper band
194.90	45.00	S0	
196.00	50.00	S0	
205.95	50.00	Cnt	IF-F and IF-H contact
207.20	55.00	S0	Siderite band
212.30	70.00	Cnt	dike
228.00	60.00	Cnt	contact with SM
229.90	70.00	S0	veinlets +rusty sulfides trace
231.60	55.00	S0	
232.30	55.00	S0	fine disseminated py veinlets // bedding

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
239.50	75.00	Cnt	contact intrusif intermediate
242.00	65.00	S0	
247.00	70.00	S0	bedding + Veinlet filled with sulfides
248.50	75.00	S0	veinlet + Py
252.80	85.00	Cnt	dike intermediate
259.20	70.00	S0	veinlet + Py
282.50	45.00	Vcc	
283.50	35.00	Vcc	
296.00	65.00	Vcc	
298.00	60.00	Vcc	
299.50	80.00	Vcc	

End of Structures ;            61 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-08-02

<b>Easting:</b> 413030.30	<b>Northing:</b> 5334339.20	<b>Elevation:</b> 443.00	
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00	
<b>Azimuth:</b> 177.00	<b>Dip:</b> -45.00	<b>Length:</b> 300.00 m.	
<b>AltAzimuth:</b> 0.00			
<b>Hole Type:</b>	<b>Zone:</b>	<b>Contractor:</b>	
<b>Started:</b> 6/05/2008	<b>Finished:</b> 15/05/2008	<b>Logged By:</b> K.Sarabia	
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/>	<b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>			
<b>Description:</b>			



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
0	0.00	49.00	OVB - no core recovered																		
0	49.00	123.20	VB - Volcanic Brecciated and deformed mafic rock, moderate chlorite + Epidote + low CaCO3 alteration, Qz veins cross-cutting the lithologie, strong foliation at the upper contact Fault-shear Zone. Fragments in the brecciated part of this interval are mm'tric to cm'tris and sub-angular to sub-rounded. The top of this unit has an chlorite + low CaCO3 alteration and the bottom of this has an Epidote + weak CaCO3 alteration, sulfides trace are also observed, Serpentine texture is present in fractured planes. The deformation is noticed in the brecciated portion of this unit. From 52 to 57m Faul gouge-clay fine to ultrafine grained matrix + clast. From 62 to 63 m anothe Fault gouge.	144050	123.00	129.00	6.00	40.80	5.58	23.50	5.51	5.00	1.52	0.07	0.39	0.25	0.10	0.05	0.02	0.72	
0	123.20	143.90	SLC - sedimentary chert with Hydrothermal structures, the upper contact has a layer with strong Mgt % but in the rest of this unit we only observe Mgt in some patches, at 124m we have sulfides up to 25-30% filling fractures and also disseminated (Py-Ccp trace) in Qz veins. At 126m we have patches + Mgt and a oxidez section with less sulfides presence. At 127m siderite is teh most important mineral present in this interval, fractures and planes of wakness are sharp and they have sulfides disseminated, chlorite alteration in fractured planes. At 135.5m hematite is formed in veinlets and near to the Mgt band, Py and Ccp are present in trace. At 139 the core is very fractured and broken	144051 144052 144053	129.00 135.00 141.00	135.00 141.00 147.00	6.00 6.00 6.00	35.50 44.20 56.30	7.60 1.95 2.20	23.10 31.70 24.50	5.82 2.43 2.22	7.01 2.39 1.49	1.74 0.20 0.07	0.34 0.08 0.10	0.60 0.12 0.08	0.41 0.13 0.11	0.12 0.08 0.13	0.04 0.01 0.01	0.01 0.01 0.01	0.58 1.66 2.99	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	S %	
			(fault zone) and sulfides are fine disseminated in the planes of weakness, Important chlorite alteration. At 151m we have a 60 cm of sulfides fine disseminated up to 55%.																		
1	143.90	144.80	IF-G - Sulfides fine disseminated are strongly present in the bedding up to 65%. Weak to none magnetism, silicified core.																		
1	144.80	148.80	SLC - Qz veinlets cross-cutting the unit, low FeOx and sulfides fine disseminated in veinlets an isolated fractures, moderate chlorite alteration and Siderite presence.	144054 144055	147.00 148.50	148.50 150.00	1.50 1.50	71.10 47.00	0.54 6.42	15.60 29.90	1.63 2.23	1.65 0.86	0.01 0.04	0.02 0.52	0.01 0.26	0.05 0.06	0.10 0.14	0.02 0.01	0.01 0.01	0.57 5.73	
0	148.80	160.50	IF-G - Sedimentary chert banded + sulfides fine disseminated in veinlets and bands up to 20-25%, weak to none magnetism, sharp angle fractures, silicified core, weathered and rusty layers. At the lower contact we observe some patches + Mgt. From 153 m we have strong magnetism bands, deformation is present in this banded core, veinlets + Qz and sulfides trace are cross-cutting the unit. The lower section of this interval has strong concentration of mgt layers but also up to 10% of sulfides in // planes to the bedding. Minnesotaite trace and FeOx up to 5%. Low CaCO3 concentration in fractures.	144056 144057	150.00 156.00	156.00 160.50	6.00 4.50	45.20 41.90	4.47 0.07	32.20 43.00	2.02 1.38	1.91 0.64	0.16 0.01	0.64 0.01	0.18 0.01	0.11 0.11	0.10 0.09	0.01 0.01	0.01 0.01	1.21 0.58	
1	160.50	163.00	IF-H - Siderite iron formation + sulfides fine disseminated up to	144058	160.50	163.00	2.50	39.70	0.07	38.60	1.85	0.69	0.01	0.01	0.01	0.12	0.10	0.01	0.01	0.34	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	163.00	175.00	less than 5%, isolated section with Mgt intense concentration, Minnesotaite trace. IF-G - Silicified core, rusty veinlets, magnetic bands with up to 10% Mgt. At 165m we have a very broken core, bottom section near to a Fault zone, bad recovery. Sulfides fine disseminated up to 10%, FeOx trace to 5%. At 173m we have a stronger % of sulfides filling fractures.	144059 144060 144061	163.00 168.00 174.00	168.00 174.00 177.00	5.00 6.00 3.00	41.20 67.90 46.80	0.15 0.27 7.50	36.60 17.30 19.10	1.91 1.42 4.58	1.39 1.44 6.47	0.01 0.02 0.24	0.02 0.06 0.20	0.01 0.01 0.29	0.10 0.05 0.09	0.15 0.22 0.16	0.01 0.03 0.02	0.01 0.01 0.01	1.65 1.30 0.46	
0	175.00	185.90	VB - From 177m to 181m we have a ultramfic volcanic rock- Pyroxenite? This unit has fractured planes // to foliation, very fractured core, chlorite alteration. The lower contact shows a rock with a fine grained texture (intermediate) with Ep + low CaCo3 alteration. Sulfides trace fine disseminated.																		
0	185.90	198.10	HBX - The upper contact has a brecciated texture with mm'tric to cm'tric subrounded fragments of chert and mudstone. Strong ep and moderate CaCO3 alteration. Fragments of a volcanic aphanitic to fine grained texture have sulfides fine disseminated, we observe marks a deformation, fractures are filled with calcite and sulfides trace. Pyrophyllite trace and also Ccp and Sp trace + Py up to 2%, rusty veinlets cross-cutting the unit.																		
2	198.10	198.30	IDB - Intermediate Dike- Gabbro? Fine to medium grained texture. The upper																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
			and the lower contact has very broken core.																		
0	198.30	215.00	VB - Brecciated volcanic rock, fragments are subrounded and mm'tric to cm'tric, Chlorite+ Epidote + CaCO3 alteration, fragments, veinlets are as well deformed. Dark to apple green, ultrafine to fine grained texture, none magnetism is observed, trace of sulfides in vesicles and groundmass.																		
1	215.00	215.60	IDB - Diabase dike, fine to medium fine grained texture, medium green gray color, sulfides trace, veinlets and fractured plane + Qz + calcite.																		
0	215.60	224.10	VB - same bracciated volcanic rock than before, fragments are subrounded mm'tric to cm'tric, strong to moderate Epidote + moderate to low Cc + moderate Chlorite alteration. Sulfides trace filling som mm'tric fragments and micro-fractures, none magnetism is observed.																		
0	224.10	231.60	IDB - very fine grained gray dike, sulfides trace present in fractures an broken planes. Weak magnetism near to the sulfides.																		
0	231.60	246.20	VB - another section with the Volcanic breccia, high Epidote + high chlorite + moderate CaCO3 presence in fractures and veinlets. The rest of the core has more Ep + Chl																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
1	246.20	247.40	than CaCO3 alteration. Veinlets filled with low Calcite and Qz, trace of sulfides fine disseminated in mm'tric fragments.  IDB - another intermediate dike, beige brownish to green color, veinlets + calcite, at the bottom we observe a sharp contact.																		
0	247.40	300.00	VB - mafic volcanic breccia, mm'tric to cm'tric subrounded fragments, Chlorite + Epidote alteration, fractures are filled with Calcite + Qz and trace of sulfides, py is fine disseminated in the matrix, some layers and fragments are composed of musdtone and chert. At 285.5 we have a vein with sulfides up to 15%.																		

End of Lithology and Assays ;

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-**RadioHill DDH2011.accdb***

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
49.00	51.00	2.00	0.00	0.00	1.70	0.00	1.45	0.00	0.00	0.00	0.00	0.00	Shear Zone- extremely fractured and milled core
51.00	54.00	3.00	0.00	0.00	2.00	0.00	1.80	0.00	0.00	0.00	0.00	0.00	extremely fractured and milled core
54.00	57.00	3.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	extremely fractured and milled core
57.00	60.00	3.00	0.00	0.00	1.45	0.00	1.90	0.00	0.00	0.00	0.00	0.00	extremely fractured and sheared core
60.00	63.00	3.00	0.00	0.00	2.80	0.00	1.80	0.00	0.00	0.00	0.00	0.00	extremely fractured, milled and sheared core
63.00	66.00	3.00	0.00	0.00	0.70	0.00	2.90	0.00	0.00	0.00	0.00	0.00	fractured core
66.00	69.00	3.00	0.00	0.00	0.95	0.00	3.00	0.00	0.00	0.00	0.00	0.00	fractured core
69.00	72.00	3.00	0.00	0.00	0.75	0.00	2.90	0.00	0.00	0.00	0.00	0.00	fractured core
72.00	75.00	3.00	0.00	0.00	0.85	0.00	2.60	0.00	0.00	0.00	0.00	0.00	fractured core
75.00	78.00	3.00	0.00	0.00	1.00	0.00	2.35	0.00	0.00	0.00	0.00	0.00	fractured core
78.00	81.00	3.00	0.00	0.00	0.60	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
81.00	84.00	3.00	0.00	0.00	0.75	0.00	2.80	0.00	0.00	0.00	0.00	0.00	fractured core
84.00	87.00	3.00	0.00	0.00	0.85	0.00	2.55	0.00	0.00	0.00	0.00	0.00	fractured core
87.00	90.00	3.00	0.00	0.00	1.05	0.00	2.70	0.00	0.00	0.00	0.00	0.00	very fractured core
90.00	93.00	3.00	0.00	0.00	2.15	0.00	1.20	0.00	0.00	0.00	0.00	0.00	bad recovery- fractured core- TLPces>10cm= 0.85m
93.00	96.00	3.00	0.00	0.00	0.75	0.00	2.75	0.00	0.00	0.00	0.00	0.00	fractured core
96.00	99.00	3.00	0.00	0.00	0.35	0.00	3.00	0.00	0.00	0.00	0.00	0.00	fractured core
99.00	102.00	3.00	0.00	0.00	1.50	0.00	2.15	0.00	0.00	0.00	0.00	0.00	fractured core
102.00	105.00	3.00	0.00	0.00	1.60	0.00	2.25	0.00	0.00	0.00	0.00	0.00	very fractured and milled core
105.00	108.00	3.00	0.00	0.00	1.15	0.00	2.60	0.00	0.00	0.00	0.00	0.00	very fractured and milled core
108.00	111.00	3.00	0.00	0.00	0.75	0.00	2.60	0.00	0.00	0.00	0.00	0.00	fractured core
111.00	114.00	3.00	0.00	0.00	0.75	0.00	2.60	0.00	0.00	0.00	0.00	0.00	fractured core
114.00	117.00	3.00	0.00	0.00	1.80	0.00	1.45	0.00	0.00	0.00	0.00	0.00	TLPces>10cm=1.2m. Fractured core
117.00	120.00	3.00	0.00	0.00	0.75	0.00	2.50	0.00	0.00	0.00	0.00	0.00	fractured core



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%	%	%	%	%						
120.00	123.00	3.00	0.00	0.00	0.85	0.00	2.45	0.00	0.00	0.00	0.00	0.00	very fractured core
123.00	126.00	3.00	0.00	0.00	1.25	0.00	2.15	0.00	0.00	0.00	0.00	0.00	very fractured core
126.00	129.00	3.00	0.00	0.00	1.25	0.00	2.10	0.00	0.00	0.00	0.00	0.00	very fractured core
129.00	132.00	3.00	0.00	0.00	0.95	0.00	2.35	0.00	0.00	0.00	0.00	0.00	very fractured core
132.00	135.00	3.00	0.00	0.00	2.05	0.00	2.00	0.00	0.00	0.00	0.00	0.00	TLPces >10cm= 0.95
135.00	138.00	3.00	0.00	0.00	2.20	0.00	2.00	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
138.00	141.00	3.00	0.00	0.00	1.90	0.00	1.85	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core
141.00	144.00	3.00	0.00	0.00	2.35	0.00	1.90	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core
144.00	147.00	3.00	0.00	0.00	1.40	0.00	2.50	0.00	0.00	0.00	0.00	0.00	fractured and broken core
147.00	150.00	3.00	0.00	0.00	2.15	0.00	3.00	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
150.00	153.00	3.00	0.00	0.00	2.80	0.00	1.45	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core
153.00	156.00	3.00	0.00	0.00	2.10	0.00	2.20	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core
156.00	159.00	3.00	0.00	0.00	1.85	0.00	2.40	0.00	0.00	0.00	0.00	0.00	fractured core
159.00	162.00	3.00	0.00	0.00	2.50	0.00	2.20	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
162.00	165.00	3.00	0.00	0.00	1.85	0.00	2.10	0.00	0.00	0.00	0.00	0.00	extremely fractured core
165.00	168.00	3.00	0.00	0.00	2.70	0.00	1.00	0.00	0.00	0.00	0.00	0.00	Fault zone-extremely broken, milled core
168.00	171.00	3.00	0.00	0.00	3.00	0.00	0.80	0.00	0.00	0.00	0.00	0.00	extremely broken, fractured and milled core
171.00	174.00	3.00	0.00	0.00	2.60	0.00	1.60	0.00	0.00	0.00	0.00	0.00	extreely fractured, broken and milled core.
174.00	177.00	3.00	0.00	0.00	2.70	0.00	1.60	0.00	0.00	0.00	0.00	0.00	extremely broken and fractured core-Fault Zone
177.00	180.00	3.00	0.00	0.00	2.60	0.00	1.70	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core
180.00	183.00	3.00	0.00	0.00	1.70	0.00	2.30	0.00	0.00	0.00	0.00	0.00	very fractured core
183.00	186.00	3.00	0.00	0.00	0.95	0.00	2.65	0.00	0.00	0.00	0.00	0.00	very fractured core

*Satellite database created from Rogue-**RadioHill DDH2011.accdb***

**RQD:**

<b>From</b>	<b>To</b>	<b>length</b>	<b>Pces&gt;100</b>	<b>Calcu</b>	<b>RQPces&lt;100</b>	<b>talReco</b>	<b>Recovery</b>	<b>Fractures</b>	<b>sacts/Leng</b>	<b>Veins</b>	<b>ains/Leng</b>	<b>Angle</b>	<b>Description</b>
186.00	189.00	3.00	0.00	0.00	0.65	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
189.00	192.00	3.00	0.00	0.00	0.85	0.00	2.65	0.00	0.00	0.00	0.00	0.00	fractured core
192.00	195.00	3.00	0.00	0.00	0.70	0.00	2.65	0.00	0.00	0.00	0.00	0.00	fractured core
195.00	198.00	3.00	0.00	0.00	1.25	0.00	2.25	0.00	0.00	0.00	0.00	0.00	fractured core
198.00	201.00	3.00	0.00	0.00	2.40	0.00	2.25	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
201.00	204.00	3.00	0.00	0.00	1.00	0.00	2.55	0.00	0.00	0.00	0.00	0.00	fractured core
204.00	207.00	3.00	0.00	0.00	0.85	0.00	2.60	0.00	0.00	0.00	0.00	0.00	mechanic fractures
207.00	210.00	3.00	0.00	0.00	0.20	0.00	2.75	0.00	0.00	0.00	0.00	0.00	mechanic fractures
210.00	213.00	3.00	0.00	0.00	0.85	0.00	2.50	0.00	0.00	0.00	0.00	0.00	fractured core
213.00	216.00	3.00	0.00	0.00	0.30	0.00	2.80	0.00	0.00	0.00	0.00	0.00	mechanic fractures
216.00	219.00	3.00	0.00	0.00	0.40	0.00	2.45	0.00	0.00	0.00	0.00	0.00	mechanic fractures
219.00	222.00	3.00	0.00	0.00	0.55	0.00	2.75	0.00	0.00	0.00	0.00	0.00	mechanic fractures
222.00	225.00	3.00	0.00	0.00	0.50	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
225.00	228.00	3.00	0.00	0.00	0.40	0.00	2.70	0.00	0.00	0.00	0.00	0.00	mechanic fractures
228.00	231.00	3.00	0.00	0.00	1.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	fractured core
231.00	234.00	3.00	0.00	0.00	0.85	0.00	2.80	0.00	0.00	0.00	0.00	0.00	fractured core
234.00	237.00	3.00	0.00	0.00	0.30	0.00	2.80	0.00	0.00	0.00	0.00	0.00	fractured core
237.00	240.00	3.00	0.00	0.00	0.50	0.00	2.75	0.00	0.00	0.00	0.00	0.00	fractured core
240.00	243.00	3.00	0.00	0.00	0.50	0.00	2.90	0.00	0.00	0.00	0.00	0.00	fractured core
243.00	246.00	3.00	0.00	0.00	0.50	0.00	2.80	0.00	0.00	0.00	0.00	0.00	mechanic fractures
246.00	249.00	3.00	0.00	0.00	0.30	0.00	2.80	0.00	0.00	0.00	0.00	0.00	mechanic fractures
249.00	252.00	3.00	0.00	0.00	0.50	0.00	2.75	0.00	0.00	0.00	0.00	0.00	fractured core
252.00	255.00	3.00	0.00	0.00	0.30	0.00	2.75	0.00	0.00	0.00	0.00	0.00	mechanic fractures
255.00	258.00	3.00	0.00	0.00	0.90	0.00	2.75	0.00	0.00	0.00	0.00	0.00	fractured core
258.00	261.00	3.00	0.00	0.00	0.40	0.00	2.75	0.00	0.00	0.00	0.00	0.00	mechanic fractures
261.00	264.00	3.00	0.00	0.00	0.55	0.00	2.75	0.00	0.00	0.00	0.00	0.00	mechanic fractures
264.00	267.00	3.00	0.00	0.00	0.20	0.00	2.90	0.00	0.00	0.00	0.00	0.00	mechanic fractures
267.00	270.00	3.00	0.00	0.00	0.40	0.00	2.85	0.00	0.00	0.00	0.00	0.00	mechanic fractures

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcu</i>	<i>RQPces&lt;100</i>	<i>tal</i>	<i>Recove</i>	<i>Recovery</i>	<i>Fractures</i>	<i>acts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
270.00	273.00	3.00	0.00	0.00	0.30	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
273.00	276.00	3.00	0.00	0.00	0.90	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
276.00	279.00	3.00	0.00	0.00	0.60	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
279.00	282.00	3.00	0.00	0.00	0.90	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
282.00	285.00	3.00	0.00	0.00	0.85	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
285.00	288.00	3.00	0.00	0.00	0.65	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
288.00	291.00	3.00	0.00	0.00	0.60	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
291.00	294.00	3.00	0.00	0.00	0.65	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
294.00	297.00	3.00	0.00	0.00	0.55	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
297.00	300.00	3.00	0.00	0.00	0.55	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	fractured core

End of RQD ; 84 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
11.20	50.00	VQ	
51.50	55.00	Vcc	
57.00	25.00	S1	
59.00	10.00	S1	
60.50	55.00	S1	
61.00	45.00	S1	
62.00	35.00	S1	
64.00	50.00	VQ	
66.00	50.00	VQ	little reaction with HCl- low presence of CaCO3
68.50	50.00	VQ	same direction of the fractures- planes of weakness
73.00	45.00	VQ	
74.00	35.00	S1	
81.50	55.00	VQ	
81.80	35.00	VQ	
93.20	45.00	VQ	near to brecciated zone
93.50	50.00	S1	lineation angle
94.40	60.00	VQ	mm'tric veinlet + qz
95.00	60.00	S1	lineation angle
99.00	55.00	S1	lineation angle
102.00	60.00	S1	lineation
104.00	55.00	S1	
105.00	60.00	S1	
106.50	40.00	VQ	
110.00	45.00	S1	
111.00	50.00	S1	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
111.00	20.00	VQ	
118.50	60.00	S1	lineation // to some fractured planes
120.00	60.00	S1	
122.00	55.00	S1	
123.20	35.00	Cnt	contact : volcanic breccia and SLC
123.20	45.00	VQ	cross-cutting Qz vein
127.00	45.00	Cnt	contact SLC and the foliated altered core + siderite
128.00	60.00	VQ	veinlet + Mnnesotaite trace
129.00	40.00	S0	fractures planes
129.50	50.00	VQ	FeOx + Siderite trace
134.00	50.00	S1	
135.00	45.00	VQ	
135.00	40.00	S1	
138.00	40.00	VQ	
140.00	40.00	S0	bands with fine disseminated sulfides
141.00	25.00	S1	fractured plane
142.00	35.00	VQ	mm'tric fragments inside the veinlet + Py-Ccp trace
143.50	60.00	S0	Siderite bands
144.00	80.00	S0	sulfides banded core section
144.50	45.00	S0	sulfides banded core
144.90	60.00	S0	sulfide banded core
145.00	85.00	Cnt	contact: sulfide banded layer and SLC
146.00	50.00	S0	sulfide banded layer
147.00	80.00	VQ	veinlets + qz
148.80	55.00	Cnt	contact: SLC and IF-G

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
149.00	55.00	S0	
149.50	40.00	S0	mm'tric bands + fine disseminated sulfides
151.00	50.00	S0	bands + sulfides + siderite + fractured planes
156.00	50.00	S0	bands + Mgt
156.00	60.00	VQ	
156.50	30.00	VQ	
156.60	40.00	VQ	
156.60	60.00	VQ	
156.70	40.00	VQ	
160.00	60.00	S0	bands + sulfides
160.00	45.00	S1	fractured plane
161.00	50.00	S0	siderite band
162.50	60.00	VQ	
162.50	50.00	S0	Siderite band
163.20	40.00	Cnt	contact: IF-H and IF-G
163.50	55.00	S0	band + sulfides
164.00	40.00	S0	chert + siderite + Mgt band
164.50	60.00	VQ	
167.00	50.00	S0	banded silicified core near to fault Zone
177.00	40.00	S1	fractred planes // to foliation
180.00	50.00	S1	fractures // to the foliation
181.00	80.00	VQ	
181.00	65.00	VQ	
183.00	40.00	VQ	
184.50	60.00	Vcc	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
187.00	50.00	VQ	
187.50	60.00	S0	
189.00	60.00	VQ	rusty veinlet
192.00	30.00	VQ	
192.00	50.00	S0	
194.00	30.00	VQ	
195.00	40.00	Vcc	
197.00	60.00	S0	
198.00	50.00	VQ	
201.00	60.00	S0	fractured plane
205.00	50.00	VQ	
207.00	75.00	VQ	
208.00	85.00	Vcc	
213.00	50.00	VQ	
213.00	60.00	VQ	
215.00	85.00	Cnt	
216.00	85.00	Vcc	
216.50	60.00	Vcc	
219.50	35.00	Vcc	
225.00	40.00	Vcc	
226.00	70.00	VQ	veinlets + fine disseminated sulfides
226.00	60.00	Vcc	
227.00	20.00	Vcc	
234.00	70.00	Vcc	
237.00	50.00	S0	fractured plane



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
241.00	60.00	Vcc	
247.00	60.00	Vcc	
247.40	80.00	Cnt	contact: IDB and VB-brecciated volcanic unit
255.50	60.00	Vcc	
257.00	30.00	Vcc	
257.00	60.00	S0	fractured planes
259.00	70.00	Vcc	
261.00	50.00	S0	fractured plane + sulfides trace
273.00	40.00	S0	fractured plane + Ep + chl
274.00	50.00	S0	fractured plane + Ep + chl + Calcite
276.00	60.00	VQ	
278.00	45.00	Vcc	
280.00	50.00	Vcc	
284.00	40.00	Vcc	
285.40	25.00	Vcc	calcite fracture + sulfides disseminated
287.00	30.00	S1	
288.00	70.00	S0	
291.00	50.00	Vcc	
292.50	40.00	VQ	
294.00	50.00	Vcc	
294.50	60.00	Vcc	
297.00	60.00	Vcc	
297.50	70.00	S0	
300.00	60.00	VQ	

End of Structures ;            124 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-10-01

**Easting:** 412750.20

**Northing:** 5334263.00

**Elevation:** 440.00

**AltEasting:** 0.00

**AltNorthing:** 0.00

**AltElevation:** 0.00

**Azimuth:** 180.00

**Dip:** -50.00

**Length:** 446.00 m.

**AltAzimuth:** 0.00

**Hole Type:**

**Zone:**

**Contractor:**

**Started:** 21/10/2010

**Finished:** 9/11-2010

**Logged By:** K.Sarabia

**Claim Number:**

**Cemented:**

**Surveyed:**

**Casing:**

**Township:**

**Description:**

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	0.00	9.60	OVB - bad recovery, only broken fragments of Gabbro and Granite rocks.																		
0	9.60	71.00	IDB - From 9.60 m to 68.00 m: gabbro with a medium to fine grained texture, sulfides are fine disseminated in the matrix, the magnetism is low to moderate and in some places is strong, fine disseminated Mgt up to 5%. Epidote + CaCO3 alteration in fractures and veinlets, chlorite alteration is also present in fractures planes. At 68.00 m we notice that the core has a fine to ultrafine grained texture (Diabase), magnetism gets stronger at the lower contact where the core is very broken.	144062	68.00	71.00	3.00	49.90	12.90	18.10	5.24	8.29	2.09	0.43	1.33	0.14	0.24	0.01	0.07	0.11	
0	71.00	85.90	IF-F - Alternating bands of Chert+ Minnesotaitite and Mgt semi-massive up to 45%. The upper contact has more Chert + minnesotaitite than Mgt bands, some layers shows well the bedding and others we observe a moderate deformation. Silicified core with sulfides fine disseminated up to 2%, lower contact with an irregular shape and almost at 90 degrees.	144063 144064 144065	71.00 75.70 80.26	75.70 80.26 85.96	4.70 4.56 5.70	50.00 52.80 51.90	13.00 0.93 0.34	18.20 39.00 43.10	5.18 4.01 2.69	8.35 1.49 1.05	2.12 0.02 0.02	0.43 0.08 0.06	1.33 0.06 0.02	0.14 0.13 0.14	0.24 0.14 0.07	0.01 0.01 0.01	0.07 0.01 0.01	0.03 0.15 0.12	
1	85.90	86.75	IDB - Diabase, intrusif mafic core, fine grained, weak magnetism. At the uper and lower contact we observe sulfides up to 5-10% fine disseminated.	144066	85.96	92.00	6.04	53.30	2.53	32.60	3.51	1.30	0.27	0.14	0.16	0.13	0.28	0.01	0.01	5.04	
0	86.75	93.50	IF-G - iron formation with sulfides filling the bands + fractures and the groundmass up to 15-20% in localized bedding. Chet +	144067	92.00	98.00	6.00	54.10	2.36	36.60	2.76	1.88	0.08	0.17	0.13	0.11	0.10	0.01	0.01	0.12	

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	93.50	97.20	Minnesotaite bands. The bedding have been affected by the deformation. IF-F - Deformed bedding with more % of Mgt than Minnesotaite + Chert, lower contact with sulfides (Py cubes) up to 3%.																		
1	97.20	99.25	IDB - Diabase, fine to medium grained texture.	144068	98.00	104.00	6.00	49.80	8.08	24.10	6.06	4.08	1.27	0.28	0.48	0.29	0.13	0.03	0.02	0.08	
1	99.25	101.90	IF-F - Mgt up to 25%, more a dark cherty core with fine disseminated mgt, the lower contact we have sulfides up to 3% (py cubes).																		
1	101.90	104.25	IDB - Diabase, pale gray color, CaCO3 trace, fine to medium grained texture.	144070	104.00	110.00	6.00	53.90	0.96	38.60	2.88	1.75	0.07	0.13	0.07	0.20	0.09	0.01	0.01	0.16	
0	104.25	112.75	IF-F - some bands have been deformed and others not, more concentration of Chert + Minnesotaite than Mgt bands. Veinlets cross-cutting the bedding ultrafine to fine grained core. Trace of sulfides up to 3%, Py disseminated and patches with Pyrrhotite.	144071	110.00	116.00	6.00	53.50	2.44	35.40	3.58	1.80	0.03	0.15	0.16	0.20	0.07	0.01	0.01	0.43	
0	112.75	119.25	IF-G - From 112.75m to 114m: Iron formation + Pyrrhotite up to 15% (upper contact) filling fractures and bedding, Py and Ccp trace. The lower contact has less % of Po and a little more of Py. From 114m to 118m: Iron	144072	116.00	122.00	6.00	50.20	3.19	35.90	3.98	2.95	0.15	0.22	0.18	0.20	0.09	0.01	0.01	0.57	

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
			formation With more Chert + minnesotaite than mgt bands- Deformation observed in the bedding. At 118m we have again another layer with strong % of sulfides, patches Po up to 10-15% , Py and Ccp trace, brecciated tecture, subangular fragments of the Chert + Minnesotaite, strong CaCO3 alteration onthe cherty bands and fragments. Veinlets + calcite cross-cutting the bedding.																		
2	119.25	119.60	IDB - Diabase, veinlets + calcite, strong CaCO3 alteration on this rock. None magnetism.																		
1	119.60	121.50	IF-G - Iron formation with sulfides (Po) up to 10-15% and Py trace up to 2-3%. Ultr-fine to fine grained texture, Chert + minnesoitaitite more present in the banded core than Mgt. Moderate to strong CaCO3 alteration on the groundmass, veinlets and fractured planes.																		
0	121.50	124.60	IDB - Diabase, fine to medium grained mafic rock, stong presence of CaCO3 in veinlets, matrix and fractured planes. None to weak magnetism. Chlorite + CaCO3 in fractures planes.	144074	122.00	125.00	3.00	47.80	8.42	22.20	7.94	5.37	0.53	0.30	0.51	0.25	0.12	0.05	0.03	0.06	
0	124.60	131.40	IF-F - Iron formation with Mgt > Chert + Minnesotaite bands. Sulfides trace to less than 3% (Po), hematisation is obsrved in some Mgt bands. Moderate CaCO3	144075 144076	125.00 131.00	131.00 137.00	6.00 6.00	54.30 68.60	0.60 2.86	41.50 22.70	1.92 2.55	1.15 1.44	0.02 0.10	0.08 0.22	0.04 0.17	0.17 0.21	0.05 0.09	0.01 0.02	0.01 0.01	0.10 0.94	

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**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
			alteration in veinlets and matrix.																		
0	131.40	145.40	IF-G - Iron formation with more mgt than Chert + Minnesotaite bands, moderate to strong % of sulfides present in some sections, Po up to 15-20%, Py trace up to 3%. Deformation is also observed in some intervals. From 134m we have a moderate to strong CaCO3 % in veinlets, fractures and matrix (Mgt bands + minnesotaite bands, the cherty bands have a less reaction to HCl. So some layers have a SiO2 and others CaCO3 alteration	144078 144079	137.00 143.00	143.00 145.65	6.00 2.65	56.60 57.00	0.56 0.38	38.40 38.40	2.30 2.19	1.00 1.24	0.03 0.03	0.10 0.12	0.03 0.01	0.14 0.14	0.07 0.08	0.01 0.01	0.01 0.01	0.01 0.01	0.65 0.45
0	145.40	151.50	IF-F - Strong % of Mgt bands, small concentration of Minnesotaite + chert bands, low Hematisation is present. The bedding is moderate deformed, strong CaCO3 in veinlets + Mgt bedding, some fractures planes present a Serpentine texture + chl alteration.	144080	145.65	152.00	6.35	47.50	0.85	47.30	2.44	1.37	0.02	0.14	0.05	0.22	0.05	0.01	0.01	0.01	0.18
2	151.50	152.00	IDB - Diabase, strong CaCO3 in the core + veinltes.																		
0	152.00	170.00	IF-F - Mgt bands >> Minnesotaite + chert bands, strong HCl response in Mgt bedding more than Minnesotaite bands, veinlets + calcite cross-cutting.	144081 144082 144083 144084	152.00 158.00 163.58 167.78	158.00 163.58 167.78 173.00	6.00 5.58 4.20 5.22	50.10 47.70 48.50 54.90	0.49 0.12 0.33 1.79	45.60 48.60 48.20 37.90	1.99 2.07 1.91 2.13	1.14 1.13 1.03 1.55	0.03 0.02 0.02 0.14	0.16 0.06 0.12 0.19	0.02 0.01 0.01 0.09	0.16 0.15 0.15 0.17	0.06 0.05 0.05 0.08	0.01 0.01 0.01 0.02	0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01	0.20 0.07 0.12 0.81
1	170.00	172.35	IF-G - Strong sulfides (Po) patches in the Mgt bedding + in fractures. Moderate to strong reaction to HCl in fractures and also																		

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**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
1	172.35	173.00	bedding. IF-G - Iron formation with Pyrrhotite patches. Chlorite + CaCO3 alteration, Mgt % >> minnesotaite%.																	
2	172.35	172.80	IDB - Diabase, fine grained texture, veinlets + Calcite.																	
0	173.00	178.35	IF-F - Mgt bedding >> Minnesotaite, sulfides (Po) patches and filling the fractures up to 3%, moderate to strong CaCO3 alteration. The orientation of the bedding is irregular, folded bands, moderate deformation zone.	144085	173.00	178.36	5.36	54.70	0.57	41.60	1.80	1.04	0.02	0.13	0.02	0.15	0.07	0.01	0.01	0.27
1	178.35	179.20	IF-G - semi-massive sulfides (Po) // to the bedding up to 20% in some localized section, veinlets + calcite, chlorite + CaCO3 alteration, less HCl response in the silicified core. Deformation is observed in the banded core. Mgt is the most significant mineral present in the layers, Minnesotaite is less significant.	144086	178.36	179.20	0.84	65.30	0.65	28.80	1.73	0.33	0.04	0.14	0.02	0.05	0.09	0.01	0.01	3.93
0	179.20	197.65	IF-F - ultrafine to fine grained texture, Mgt is fine disseminates in the Cherty bedding also, sulfides patches and filling fractures up to 3% (Po). The bedding is moderate deformed. Low to moderate HCl response in fractures and the cherty bedding.	144087 144088 144089 144090 144092	179.20 184.77 187.82 191.38 194.94	184.77 187.82 191.38 194.94 200.00	5.57 3.05 3.56 3.56 5.06	48.10 48.60 42.60 45.20 52.00	0.13 0.05 0.07 0.08 8.00	49.50 48.70 54.70 51.80 27.60	1.79 2.04 1.71 2.29 2.66	0.91 1.01 1.15 0.91 3.28	0.02 0.02 0.01 0.03 1.69	0.07 0.05 0.06 0.07 1.21	0.01 0.01 0.01 0.01 0.35	0.16 0.15 0.17 0.15 0.25	0.05 0.05 0.04 0.05 0.06	0.01 0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01 0.01	0.11 0.06 0.11 0.03 0.09



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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
1	197.65	200.60	IDB - Diabase, fine grained texture, veinlets + calcite, weak magnetism.	144093	200.00	204.73	4.73	46.80	2.06	44.10	2.51	2.16	0.36	0.21	0.12	0.21	0.05	0.01	0.01	0.01	0.24
0	200.60	206.60	IF-G - fine to very fine grained core, patches of sulfides (Po) // to the bedding up to 20% at the lower contact, moderte to low HCl response.	144094 144095	204.73 206.59	206.59 211.41	1.86 4.82	64.20 42.70	0.21 0.10	32.20 54.20	1.56 1.85	0.65 1.08	0.02 0.02	0.10 0.07	0.01 0.01	0.07 0.17	0.07 0.06	0.01 0.01	0.01 0.01	0.01 0.01	2.01 0.03
0	206.60	217.15	IF-F - Mgt >> Minnesotaite + Chert bedding, moderte deformed banded core, low CaCO3 alteration on the fractures + broken planes and bedding, sulfides fine disseminated and patches in trace.	144096	211.41	217.17	5.76	50.10	0.17	46.60	1.86	0.88	0.02	0.11	0.01	0.12	0.06	0.01	0.01	0.01	0.21
1	217.15	218.00	IF-G - disseminated Pyrrhotite up to 15% and // to the cm'tric bedding, silicified core, Minnesotaite + chert >> Mgt bedding, low CaCO3 response in fractures.	144098	217.17	222.18	5.01	49.50	0.12	45.90	2.08	0.94	0.02	0.09	0.01	0.11	0.08	0.01	0.01	0.01	0.57
0	218.00	222.20	IF-F - Mgt bedding < Minnesotaite + chert bands, low CaCO3 alteration, Silicified and very fine grained core, strong to moderate magnteism.	144099	222.18	223.79	1.61	47.50	4.83	34.00	2.32	2.03	0.72	0.33	0.23	0.32	0.08	0.01	0.01	0.01	8.01
1	222.20	223.10	IF-G - semi-massive sulfides zone (Po) up to 40% in lacialized cm'tric band. Silicified core, very fine grained texture.																		

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	223.10	223.80	IDB - Diabase, with an interval of a Iron formation type G inside.	144100	223.79	229.63	5.84	46.00	0.10	50.10	2.34	1.18	0.02	0.05	0.01	0.14	0.07	0.01	0.01	0.01	0.03
0	223.80	232.60	IF-F - Fine grained and silicified core, moderate to weak HCl response in fractures, veinlets and matrix, Mgt >> Minnesotaite + Chert bedding. Strong magnetism, sulfides trace. Moderate deformation is present in the banded core.	144101	229.63	233.00	3.37	50.10	0.02	47.10	2.21	0.71	0.01	0.03	0.01	0.14	0.06	0.01	0.01	0.01	0.05
0	232.60	236.10	IF-G - Semi-massive sulfides Zone, Pyrrhotite patches and disseminated up to 40% in the upper contact of this interval, and up to 65% (massive) in the central part of this interval. Moderate Minnesotaite + Chert concentration in the deformed bedding.	144102	233.00	236.10	3.10	49.60	1.42	37.90	1.91	0.48	0.04	0.18	0.07	0.06	0.08	0.01	0.01	0.01	11.40
0	236.10	244.90	IF-F - moderate CaCO3 presence in veinlets + fractured planes, Mgt >> Minnesotaite + Chert layers, Sulfides trace (Py-Po) up to 3- 4%. Veinlets + calcite cross-cutting this unit. The bedding has not a defined orientation.	144103 144104	236.10 241.80	241.80 244.93	5.70 3.13	47.50 51.30	0.16 0.14	44.80 42.80	2.72 2.47	1.32 1.01	0.01 0.02	0.12 0.12	0.01 0.01	0.10 0.11	0.08 0.07	0.01 0.01	0.01 0.01	0.01 0.01	0.35 0.15
0	244.90	250.70	IF-G - Mgt + Chlorite + Brecciated Chert + Pyrrhotite filling the fractured matrix up 25% and also Py fine disseminated in veinlets + fractures up to 5%. At the lower contact we have more Oxidized fractures and also Siderite trace to 3% in the brecciated Chert layer.	144105	244.93	251.00	6.07	56.50	1.77	30.60	2.36	0.81	0.12	0.27	0.07	0.07	0.07	0.02	0.01	0.01	1.73
1	250.70	252.20	IDB - Diabase, veinlets stretched out	144106	251.00	253.62	2.62	45.00	5.58	29.30	4.24	2.78	0.86	0.29	0.34	0.20	0.12	0.03	0.01	0.01	8.60

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								%	%	%	%	%	%	%	%	%	%	%	%	%	
1	252.20	253.60	+ Calcite, Chlorite + CaCO3 alteration in the fine grained core, weak magnetism. Stockwork : Calcite veinlets  IF-G - Semi-massive Pyrrhotite filling the fractured groundmass and also the bedding, Py trace up to 2%, silicified core.																		
0	253.60	259.40	IF-F - siderite and Minnesotaite trace, strong Mgt % in the bedding, bands have a different orientation in this interval, veinlets filled with calcite. At the upper contact we observe more Chert + mgt fine disseminated than Mgt bands.	144107 144109	253.62 259.34	259.34 260.68	5.72 1.34	59.30 53.20	0.08 14.10	33.90 8.24	2.87 5.73	0.83 5.56	0.02 2.45	0.04 1.72	0.01 0.64	0.09 0.53	0.15 0.08	0.01 0.01	0.01 0.02	0.10 0.03	
1	259.40	260.60	IDB - Diabase with veinlets + calcite cross-cutting the fine grained core.																		
0	260.60	276.25	IF-F - Moderate deformed banded core, Mgt >>> minnesotaite bands, veinlets + calcite cross-cutting the bedding, moderate HCl response in the Chert + minnesotaite bands, sulfides trace.	144110 144111 144112	260.68 266.92 273.10	266.92 273.10 276.27	6.24 6.18 3.17	52.30 52.30 53.90	0.15 0.08 0.12	40.30 38.60 38.40	3.30 3.27 3.03	0.91 1.09 1.14	0.01 0.02 0.03	0.04 0.06 0.08	0.01 0.01 0.01	0.05 0.06 0.08	0.15 0.11 0.09	0.01 0.01 0.01	0.01 0.01 0.01	0.03 0.11 0.40	
0	276.25	279.25	IF-G - Strong presence of sulfides (Po) filling the fractures and // to the magnetic bedding, the lower contact has more Py than Po and the Chert has a brecciated texture near to a shear zone.	144113	276.27	281.00	4.73	57.10	4.27	23.30	4.52	2.09	0.38	0.15	0.24	0.10	0.17	0.02	0.01	1.16	
1	279.25	281.00	CIS																		

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**Lithology and Assays:**

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								%	%	%	%	%	%	%	%	%	%	%	%	%	%
0	281.00	287.00	- Shear zone, chlorite + CaCO3 alteration, foliation of the mafic mineral is observed at the upper contact, strong HCl response in fractures, veinlets and matrix. Intermediate intrusif core, fine to medium grained. IF-G - Deformed banded core, sulfides up to 8-10% (Py > Po), moderate to weak HCl response in the veinlets only near to mineralization (Py). Lower contact we observe Py filling veinlets and fractures up to 10%.	144114	281.00	287.00	6.00	50.40	2.43	31.00	3.99	2.37	0.20	0.13	0.14	0.09	0.28	0.01	0.01	2.09	
1	287.00	288.10	IF-F - Mgt band + Mgt fine disseminated in the cherty banded core, moderate to weak CaCO3 presence in veinlets and fractured planes, silicified core.	144115	287.00	292.35	5.35	59.40	2.04	29.10	3.17	1.79	0.45	0.17	0.10	0.11	0.12	0.01	0.01	0.15	
1	288.10	288.70	IDB - Mafic intrusif rock, veinlets + calcite, fine grained texture, strong HCl response in the core.																		
0	288.70	293.00	IF-F - banded core Mgt >> chert + Minnesotaite bedding, deformed bands, moderate CaCO3 in veinlets + fractured planes, Minnesotaite up to 5% and siderite trace. Ultra-fine to fine grained core.	144116	292.35	296.88	4.53	50.60	4.37	30.80	5.20	3.01	0.11	0.43	0.27	0.19	0.10	0.01	0.01	0.03	
1	293.00	294.10	IDB - Diabase, fine grained texture and medium green color, veinlets + calcite, weak to none																		

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								%	%	%	%	%	%	%	%	%	%	%	%	%
			magnetism.																	
0	294.10	313.00	IF-F	144117	296.88	302.44	5.56	44.60	0.06	51.60	2.27	0.90	0.01	0.06	0.01	0.13	0.04	0.01	0.01	0.03
			- Moderate deformed banded core, Mg >>	144118	302.44	308.00	5.56	43.30	0.06	53.60	2.09	0.67	0.01	0.05	0.01	0.13	0.05	0.01	0.01	0.03
			Mgt + Chert > Chert + Minnesotaite, Mgt	144119	308.00	314.00	6.00	47.00	1.15	44.50	2.86	1.47	0.02	0.14	0.07	0.14	0.06	0.01	0.01	0.11
			up to 45-50%, moderate to low Chlorite																	
			and CaCO3 alteration, veinlets filled with																	
			calcite, silicified core.																	
2	313.00	313.50	IDB																	
			- Diabase, chlorite and low																	
			CaCO3 alteration, none																	
			magnetic and fine grained																	
			texture.																	
1	313.50	314.45	HBX	144120	314.00	318.00	4.00	68.10	1.88	21.90	2.88	0.83	0.03	0.05	0.11	0.09	0.10	0.01	0.01	0.10
			- Brecciated Chert with																	
			Minnesotaite filling fractures and																	
			veinlets, Mgt bands up to 15%,																	
			Siderite up to 3%, sulfides trace																	
			up to 2%.																	
1	314.45	317.40	IF-F																	
			- Mgt + chert > Mgt > Chert +																	
			Minnesotaite bedding, low HCl																	
			response in veinlets, siderite																	
			trace.																	
1	317.40	318.00	IDB																	
			- Diabase, Chlorite alteration,																	
			weak to none HCl response in																	
			veinlets and broken planes.																	
0	318.00	353.00	IF-F	144121	318.00	323.55	5.55	61.20	0.28	30.50	2.88	1.12	0.03	0.06	0.02	0.05	0.10	0.01	0.01	0.10
			- the upper contact has a zone with more	144122	323.55	329.14	5.59	47.70	0.06	44.30	3.75	1.17	0.01	0.05	0.01	0.07	0.09	0.01	0.01	0.03
			presence of Mgt >> Mgt + chert > Chert +	144123	329.14	333.83	4.69	51.90	0.27	40.10	2.82	0.91	0.02	0.07	0.07	0.08	0.05	0.01	0.01	0.13
			Minnesotaite bedding, sulfides are	144124	333.83	337.14	3.31	44.80	0.26	43.70	2.36	0.83	0.03	0.08	0.06	0.08	0.04	0.01	0.01	0.17
			disseminated in fractures up to 3% (Py).	144125	337.14	340.46	3.32	46.90	0.08	44.90	1.84	0.62	0.02	0.04	0.01	0.09	0.04	0.01	0.01	0.15
			The in the center of this section we have	144126	340.46	343.77	3.31	48.50	0.13	45.60	1.98	0.74	0.02	0.08	0.01	0.10	0.06	0.01	0.01	0.07

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
			Mgt + Chert >> Mgt > Minnesotaite + Chert bands, siderite trace to 3% filling fractures and veinlets, moderate to weak HCl response in the entire core.	144127 144128	343.77 347.07	347.07 353.18	3.30 6.11	46.60 48.10	0.22 0.18	43.50 41.90	2.38 2.31	0.97 0.90	0.03 0.03	0.09 0.08	0.01 0.01	0.10 0.10	0.07 0.05	0.01 0.01	0.01 0.01	0.03 0.13
0	353.00	364.10	IF-G - in the cherty bands we have more presence of Siderite up to 5-6%, Pyrrhotite patches and filling some bands and fractures is also present up to 8-10%. Mgt + chert > Mgt bedding. Fine grained texture.	144129 144130	353.18 358.80	358.80 364.44	5.62 5.64	45.20 50.10	0.27 0.82	40.90 35.90	2.61 2.81	1.11 1.42	0.05 0.09	0.11 0.22	0.01 0.09	0.08 0.09	0.06 0.10	0.01 0.01	0.01 0.01	0.41 0.36
1	364.10	365.90	IDB - chlorite and moderate CaCO3 alteration, fine grained texture and medium green color.	144131	364.44	370.37	5.93	50.20	2.85	34.30	3.06	3.10	0.07	0.43	0.18	0.14	0.08	0.01	0.01	0.79
0	365.90	368.90	IF-F - Mgt + Chert >> Mgt > Minnesotaite +Chert bedding, ultrafine to fine grained texture, silicified core, low HCl response, siderite trace, the banded core have been deformed.																	
1	368.90	370.40	IF-G - Minnesotaite + chert > Mgt > Mgt + Chert bands, Pyrrhotite pathes and disseminated in fractures and // to the bedding, Siderite trace, low to weak CaCO3 % present in fractured planes or veinlets, silicified core.	144133	370.37	375.10	4.73	52.70	0.44	38.30	2.97	0.99	0.06	0.22	0.02	0.07	0.09	0.01	0.01	0.17
0	370.40	425.00	IF-F - this interval have some layers with a strong to moderate deformation, the bedding is irregular. At the upper contact we have that Mgt >> Mgt + chert >	144134 144135 144136 144137 144138	375.10 379.63 384.55 390.38 395.58	379.63 384.55 390.38 395.58 400.15	4.53 4.92 5.83 5.20 4.57	45.50 49.80 46.10 47.40 46.30	0.27 0.10 0.32 0.15 0.03	46.20 43.10 44.50 44.50 48.50	1.73 1.73 1.63 1.43 1.50	0.92 0.65 0.70 0.57 0.58	0.04 0.03 0.05 0.05 0.01	0.09 0.05 0.07 0.07 0.03	0.02 0.01 0.02 0.01 0.01	0.08 0.09 0.07 0.13 0.09	0.04 0.04 0.04 0.04 0.05	0.01 0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01 0.01	0.22 0.03 0.18 0.16 0.07

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
			Minnesotaite + Chert bedding. At the middle of this interval, we observe more Mgt + Chert + Siderite than Mgt bands, siderite trace up to 5-8%, sulfides trace up to 10% in isolated zones. The lower contact the banded core has more Jasper concentration in the magnetic bedding and the Hematisation of the bedding is also present, Py fine disseminated up to 3%, minnesotaite trace, strong silicification and weak CaCO3 conectration in fractures, veinlets.	144139	400.15	406.56	6.41	45.20	0.02	51.10	1.29	0.50	0.01	0.02	0.01	0.11	0.03	0.01	0.01	0.03
				144141	406.56	413.00	6.44	45.70	0.04	49.10	1.62	0.51	0.01	0.03	0.01	0.11	0.04	0.01	0.01	0.15
				144142	413.00	419.00	6.00	48.80	0.10	48.80	1.32	0.50	0.01	0.03	0.01	0.09	0.04	0.01	0.01	0.07
				144143	419.00	425.00	6.00	47.60	0.03	50.10	1.31	0.46	0.01	0.03	0.02	0.09	0.03	0.01	0.01	0.12
0	425.00	428.20	VB - Volcanic rock, fine to medium grained core, Chlorite alteration, strong CaCO3 presence in the groundmass, veinlets and fractures.	144145	425.00	428.00	3.00	58.10	15.60	9.52	2.92	3.38	0.76	3.04	0.67	0.17	0.10	0.03	0.02	0.16
				144146	428.00	434.00	6.00	50.60	3.51	32.50	2.68	1.75	0.13	0.37	0.17	0.10	0.13	0.01	0.01	0.77
0	428.20	435.00	IF-G - Mgt >> Mgt + Chert > Minnesotaite + Chert bedding, Po patches and filling fractures up to 8-10%, strong to moderate magnetism as getting to the lower contact, Siderite trace, silicified core.	144147	434.00	437.00	3.00	52.30	12.20	10.80	4.22	7.41	2.34	0.66	0.52	0.10	0.12	0.05	0.02	0.13
0	435.00	446.00	VB - Apple green fine grained volcanic core, Py cm'tric to mm'tric cubes disseminated in the rock, veinlets + calcite, Chlorite and Epidote alteration, strong HCl response.	144148	437.00	440.00	3.00	49.70	11.90	8.42	4.57	9.92	2.08	0.92	0.53	0.10	0.13	0.06	0.03	0.03

End of Lithology and Assays ;





*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
9.60	11.00	1.40	0.00	0.00	1.00	0.00	1.40	0.00	0.00	0.00	0.00	0.00	fractured core
11.00	14.00	3.00	0.00	0.00	0.60	0.00	2.85	0.00	0.00	0.00	0.00	0.00	mechanic fractures
14.00	17.00	3.00	0.00	0.00	0.85	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
17.00	20.00	3.00	0.00	0.00	0.75	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
20.00	23.00	3.00	0.00	0.00	0.15	0.00	3.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
23.00	26.00	3.00	0.00	0.00	0.40	0.00	3.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
26.00	29.00	3.00	0.00	0.00	0.55	0.00	2.90	0.00	0.00	0.00	0.00	0.00	mechanic fractures
29.00	32.00	3.00	0.00	0.00	0.55	0.00	2.85	0.00	0.00	0.00	0.00	0.00	mechanic fractures
32.00	35.00	3.00	0.00	0.00	1.00	0.00	2.80	0.00	0.00	0.00	0.00	0.00	fractured core
35.00	38.00	3.00	0.00	0.00	0.50	0.00	2.90	0.00	0.00	0.00	0.00	0.00	mechanic fractures
38.00	41.00	3.00	0.00	0.00	0.40	0.00	2.85	0.00	0.00	0.00	0.00	0.00	mechanic fractures
41.00	44.00	3.00	0.00	0.00	0.75	0.00	2.80	0.00	0.00	0.00	0.00	0.00	fractured core
44.00	47.00	3.00	0.00	0.00	1.10	0.00	2.85	0.00	0.00	0.00	0.00	0.00	fractured core
47.00	50.00	3.00	0.00	0.00	1.00	0.00	2.40	0.00	0.00	0.00	0.00	0.00	fractured core
50.00	53.00	3.00	0.00	0.00	0.60	0.00	2.80	0.00	0.00	0.00	0.00	0.00	very fractured core
53.00	56.00	3.00	0.00	0.00	0.60	0.00	2.85	0.00	0.00	0.00	0.00	0.00	mechanic fractures
56.00	59.00	3.00	0.00	0.00	0.45	0.00	2.75	0.00	0.00	0.00	0.00	0.00	fractured core
59.00	62.00	3.00	0.00	0.00	0.30	0.00	2.85	0.00	0.00	0.00	0.00	0.00	fractured core
62.00	65.00	3.00	0.00	0.00	0.70	0.00	2.80	0.00	0.00	0.00	0.00	0.00	fractured core
65.00	68.00	3.00	0.00	0.00	0.45	0.00	2.75	0.00	0.00	0.00	0.00	0.00	mechanic fractures
68.00	71.00	3.00	0.00	0.00	1.05	0.00	2.30	0.00	0.00	0.00	0.00	0.00	fractured core
71.00	74.00	3.00	0.00	0.00	1.00	0.00	2.45	0.00	0.00	0.00	0.00	0.00	very fractured core
74.00	77.00	3.00	0.00	0.00	0.60	0.00	2.70	0.00	0.00	0.00	0.00	0.00	very fractured core
77.00	80.00	3.00	0.00	0.00	0.35	0.00	3.00	0.00	0.00	0.00	0.00	0.00	fractured core
80.00	83.00	3.00	0.00	0.00	0.45	0.00	2.80	0.00	0.00	0.00	0.00	0.00	fractured core
83.00	86.00	3.00	0.00	0.00	0.80	0.00	2.65	0.00	0.00	0.00	0.00	0.00	fractured core
86.00	89.00	3.00	0.00	0.00	0.80	0.00	2.70	0.00	0.00	0.00	0.00	0.00	mechanic fractures
89.00	92.00	3.00	0.00	0.00	0.55	0.00	2.70	0.00	0.00	0.00	0.00	0.00	mechanic fractures
92.00	95.00	3.00	0.00	0.00	0.55	0.00	2.85	0.00	0.00	0.00	0.00	0.00	fractured core

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	%ces>100	Calcu	RQP	%ces<100	tal	Recove	Recovery	Fractures	sacts/Leng	Veins	ains/Leng	Angle	Description
			%			%									
95.00	98.00	3.00	0.00	0.00	1.05	0.00	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	very fractured core
98.00	101.00	3.00	0.00	0.00	0.95	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	very fractured core
101.00	104.00	3.00	0.00	0.00	2.00	0.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	extremely fractured core
104.00	107.00	3.00	0.00	0.00	0.40	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	very fractured core
107.00	110.00	3.00	0.00	0.00	1.00	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
110.00	113.00	3.00	0.00	0.00	0.55	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
113.00	116.00	3.00	0.00	0.00	0.55	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
116.00	119.00	3.00	0.00	0.00	0.80	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
119.00	122.00	3.00	0.00	0.00	0.50	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
122.00	125.00	3.00	0.00	0.00	1.25	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
125.00	128.00	3.00	0.00	0.00	0.30	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
128.00	131.00	3.00	0.00	0.00	0.70	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
131.00	134.00	3.00	0.00	0.00	0.50	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
134.00	137.00	3.00	0.00	0.00	0.90	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
137.00	140.00	3.00	0.00	0.00	0.85	0.00	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	very fractured core
140.00	143.00	3.00	0.00	0.00	0.40	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
143.00	146.00	3.00	0.00	0.00	0.60	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
146.00	149.00	3.00	0.00	0.00	0.80	0.00	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
149.00	152.00	3.00	0.00	0.00	0.90	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
152.00	155.00	3.00	0.00	0.00	0.80	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
155.00	158.00	3.00	0.00	0.00	1.20	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	very fractured core
158.00	161.00	3.00	0.00	0.00	0.75	0.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
161.00	164.00	3.00	0.00	0.00	0.70	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
164.00	167.00	3.00	0.00	0.00	0.50	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
167.00	170.00	3.00	0.00	0.00	1.20	0.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
170.00	173.00	3.00	0.00	0.00	0.70	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
173.00	176.00	3.00	0.00	0.00	0.90	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
176.00	179.00	3.00	0.00	0.00	1.05	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core
179.00	182.00	3.00	0.00	0.00	0.50	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcu</i>	<i>RQPces&lt;100</i>	<i>alReco</i>	<i>Recovery</i>	<i>Fractures</i>	<i>sacts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
				<i>%</i>		<i>%</i>							
182.00	185.00	3.00	0.00	0.00	0.65	0.00	2.65	0.00	0.00	0.00	0.00	0.00	mechanic fractures
185.00	188.00	3.00	0.00	0.00	0.40	0.00	2.80	0.00	0.00	0.00	0.00	0.00	mechanic fractures
188.00	191.00	3.00	0.00	0.00	0.60	0.00	2.65	0.00	0.00	0.00	0.00	0.00	mechanic fractures
191.00	194.00	3.00	0.00	0.00	0.50	0.00	2.65	0.00	0.00	0.00	0.00	0.00	mechanic fractures
194.00	197.00	3.00	0.00	0.00	2.00	0.00	1.75	0.00	0.00	0.00	0.00	0.00	very broken and fractured core
197.00	200.00	3.00	0.00	0.00	1.90	0.00	2.35	0.00	0.00	0.00	0.00	0.00	very fractured core
200.00	203.00	3.00	0.00	0.00	1.00	0.00	2.30	0.00	0.00	0.00	0.00	0.00	fractured core
203.00	206.00	3.00	0.00	0.00	0.60	0.00	2.55	0.00	0.00	0.00	0.00	0.00	mechanic fractures
206.00	209.00	3.00	0.00	0.00	0.40	0.00	2.85	0.00	0.00	0.00	0.00	0.00	mechanic fractures
209.00	212.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
212.00	215.00	3.00	0.00	0.00	0.45	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
215.00	218.00	3.00	0.00	0.00	0.70	0.00	2.70	0.00	0.00	0.00	0.00	0.00	mechanic fractures
218.00	221.00	3.00	0.00	0.00	0.45	0.00	2.90	0.00	0.00	0.00	0.00	0.00	mechanic fractures
221.00	224.00	3.00	0.00	0.00	0.55	0.00	2.75	0.00	0.00	0.00	0.00	0.00	mechanic fractures
224.00	227.00	3.00	0.00	0.00	0.25	0.00	2.75	0.00	0.00	0.00	0.00	0.00	mechanic fractures
227.00	230.00	3.00	0.00	0.00	0.30	0.00	2.85	0.00	0.00	0.00	0.00	0.00	mechanic fractures
230.00	233.00	3.00	0.00	0.00	0.40	0.00	2.75	0.00	0.00	0.00	0.00	0.00	mechanic fractures
233.00	236.00	3.00	0.00	0.00	0.85	0.00	2.80	0.00	0.00	0.00	0.00	0.00	fractured core
236.00	239.00	3.00	0.00	0.00	0.55	0.00	2.75	0.00	0.00	0.00	0.00	0.00	mechanic fractures
239.00	242.00	3.00	0.00	0.00	0.15	0.00	2.90	0.00	0.00	0.00	0.00	0.00	mechanic fractures
242.00	245.00	3.00	0.00	0.00	0.70	0.00	2.65	0.00	0.00	0.00	0.00	0.00	mechanic fractures
245.00	248.00	3.00	0.00	0.00	0.90	0.00	2.60	0.00	0.00	0.00	0.00	0.00	mechanic fractures
248.00	251.00	3.00	0.00	0.00	0.80	0.00	2.85	0.00	0.00	0.00	0.00	0.00	fractured core
251.00	254.00	3.00	0.00	0.00	0.40	0.00	3.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
254.00	257.00	3.00	0.00	0.00	0.45	0.00	2.60	0.00	0.00	0.00	0.00	0.00	mechanic fractures
257.00	260.00	3.00	0.00	0.00	0.60	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
260.00	263.00	3.00	0.00	0.00	0.75	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
263.00	266.00	3.00	0.00	0.00	0.10	0.00	2.95	0.00	0.00	0.00	0.00	0.00	mechanic fractures

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	sacts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
266.00	269.00	3.00	0.00	0.00	0.90	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
269.00	272.00	3.00	0.00	0.00	0.70	0.00	2.70	0.00	0.00	0.00	0.00	0.00	mechanic fractures
272.00	275.00	3.00	0.00	0.00	0.60	0.00	2.75	0.00	0.00	0.00	0.00	0.00	fractured core
275.00	278.00	3.00	0.00	0.00	0.55	0.00	1.70	0.00	0.00	0.00	0.00	0.00	mechanic fractures
278.00	281.00	3.00	0.00	0.00	0.95	0.00	2.90	0.00	0.00	0.00	0.00	0.00	fractured core
281.00	284.00	3.00	0.00	0.00	0.45	0.00	2.80	0.00	0.00	0.00	0.00	0.00	mechanic fractures
284.00	287.00	3.00	0.00	0.00	0.35	0.00	2.95	0.00	0.00	0.00	0.00	0.00	fractured core
287.00	290.00	3.00	0.00	0.00	0.80	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
290.00	293.00	3.00	0.00	0.00	0.95	0.00	2.85	0.00	0.00	0.00	0.00	0.00	fractured core
293.00	296.00	3.00	0.00	0.00	0.95	0.00	2.75	0.00	0.00	0.00	0.00	0.00	fractured core
296.00	299.00	3.00	0.00	0.00	0.75	0.00	2.80	0.00	0.00	0.00	0.00	0.00	fractured core
299.00	302.00	3.00	0.00	0.00	0.90	0.00	2.95	0.00	0.00	0.00	0.00	0.00	fractured core
302.00	305.00	3.00	0.00	0.00	0.75	0.00	2.90	0.00	0.00	0.00	0.00	0.00	fractured core
305.00	308.00	3.00	0.00	0.00	0.70	0.00	2.90	0.00	0.00	0.00	0.00	0.00	fractured core
308.00	311.00	3.00	0.00	0.00	0.70	0.00	2.80	0.00	0.00	0.00	0.00	0.00	fractured core
311.00	314.00	3.00	0.00	0.00	1.25	0.00	2.90	0.00	0.00	0.00	0.00	0.00	mechanic fractures
314.00	317.00	3.00	0.00	0.00	1.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	mechanic fractures
317.00	320.00	3.00	0.00	0.00	0.55	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
320.00	323.00	3.00	0.00	0.00	0.90	0.00	2.85	0.00	0.00	0.00	0.00	0.00	fractured core
323.00	326.00	3.00	0.00	0.00	0.50	0.00	2.80	0.00	0.00	0.00	0.00	0.00	mechanic fractures
326.00	329.00	3.00	0.00	0.00	0.45	0.00	2.85	0.00	0.00	0.00	0.00	0.00	mechanic fractures
329.00	332.00	3.00	0.00	0.00	0.60	0.00	2.90	0.00	0.00	0.00	0.00	0.00	mechanic fractures
332.00	335.00	3.00	0.00	0.00	0.85	0.00	2.60	0.00	0.00	0.00	0.00	0.00	fractured core
335.00	338.00	3.00	0.00	0.00	0.75	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
338.00	341.00	3.00	0.00	0.00	0.85	0.00	2.60	0.00	0.00	0.00	0.00	0.00	fractured core
341.00	344.00	3.00	0.00	0.00	0.70	0.00	2.85	0.00	0.00	0.00	0.00	0.00	fractured core
344.00	347.00	3.00	0.00	0.00	0.65	0.00	2.60	0.00	0.00	0.00	0.00	0.00	fractured core
347.00	350.00	3.00	0.00	0.00	0.85	0.00	2.65	0.00	0.00	0.00	0.00	0.00	fractured core
350.00	353.00	3.00	0.00	0.00	1.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core

*Satellite database created from Rogue-**RadioHill DDH2011.accdb***

**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcul</i>	<i>RQPces&lt;100</i>	<i>alRecover</i>	<i>Recovery</i>	<i>Fractures</i>	<i>sacts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
			<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>						
353.00	356.00	3.00	0.00	0.00	1.25	0.00	2.45	0.00	0.00	0.00	0.00	0.00	fractured core
356.00	359.00	3.00	0.00	0.00	1.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	very fractured core
359.00	362.00	3.00	0.00	0.00	0.85	0.00	2.85	0.00	0.00	0.00	0.00	0.00	fractured core
362.00	365.00	3.00	0.00	0.00	0.65	0.00	2.95	0.00	0.00	0.00	0.00	0.00	mechanic fractures
365.00	368.00	3.00	0.00	0.00	0.70	0.00	2.80	0.00	0.00	0.00	0.00	0.00	fractured core
368.00	371.00	3.00	0.00	0.00	0.50	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
371.00	374.00	3.00	0.00	0.00	0.70	0.00	2.60	0.00	0.00	0.00	0.00	0.00	mechanic fractures
374.00	377.00	3.00	0.00	0.00	0.50	0.00	2.65	0.00	0.00	0.00	0.00	0.00	mechanic fractures
377.00	380.00	3.00	0.00	0.00	0.60	0.00	2.55	0.00	0.00	0.00	0.00	0.00	mechanic fractures
380.00	383.00	3.00	0.00	0.00	0.70	0.00	2.60	0.00	0.00	0.00	0.00	0.00	fractured core
383.00	386.00	3.00	0.00	0.00	0.60	0.00	2.65	0.00	0.00	0.00	0.00	0.00	fractured core
386.00	389.00	3.00	0.00	0.00	0.55	0.00	2.60	0.00	0.00	0.00	0.00	0.00	fractured core
389.00	392.00	3.00	0.00	0.00	1.00	0.00	2.45	0.00	0.00	0.00	0.00	0.00	fractured core
392.00	395.00	3.00	0.00	0.00	0.40	0.00	2.75	0.00	0.00	0.00	0.00	0.00	mechanic fractures
395.00	398.00	3.00	0.00	0.00	0.60	0.00	2.50	0.00	0.00	0.00	0.00	0.00	fractured core
398.00	401.00	3.00	0.00	0.00	0.55	0.00	2.75	0.00	0.00	0.00	0.00	0.00	fractured core
401.00	404.00	3.00	0.00	0.00	0.70	0.00	2.60	0.00	0.00	0.00	0.00	0.00	fractured core
404.00	407.00	3.00	0.00	0.00	0.50	0.00	2.60	0.00	0.00	0.00	0.00	0.00	mechanic fractures
407.00	410.00	3.00	0.00	0.00	0.65	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
410.00	413.00	3.00	0.00	0.00	0.70	0.00	2.75	0.00	0.00	0.00	0.00	0.00	fractured core
413.00	416.00	3.00	0.00	0.00	0.60	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
416.00	419.00	3.00	0.00	0.00	0.85	0.00	2.60	0.00	0.00	0.00	0.00	0.00	fractured core
419.00	422.00	3.00	0.00	0.00	0.90	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
422.00	425.00	3.00	0.00	0.00	1.30	0.00	2.70	0.00	0.00	0.00	0.00	0.00	very fractured core
425.00	428.00	3.00	0.00	0.00	0.85	0.00	2.90	0.00	0.00	0.00	0.00	0.00	mechanic fractures
428.00	431.00	3.00	0.00	0.00	1.70	0.00	2.10	0.00	0.00	0.00	0.00	0.00	lower contact: 2 ft grind- very broken core
431.00	434.00	3.00	0.00	0.00	0.40	0.00	2.80	0.00	0.00	0.00	0.00	0.00	mechanic fractures
434.00	437.00	3.00	0.00	0.00	0.30	0.00	2.90	0.00	0.00	0.00	0.00	0.00	mechanic fractures

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcu</i>	<i>RQPces&lt;100</i>	<i>talReco</i>	<i>Recovery</i>	<i>Fractures</i>	<i>sacts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
			<i>%</i>	<i>%</i>		<i>%</i>							
437.00	440.00	3.00	0.00	0.00	0.30	0.00	2.80	0.00	0.00	0.00	0.00	0.00	mechanic fractures
440.00	443.00	3.00	0.00	0.00	0.45	0.00	2.80	0.00	0.00	0.00	0.00	0.00	mechanic fractures
443.00	446.00	3.00	0.00	0.00	0.25	0.00	2.80	0.00	0.00	0.00	0.00	0.00	mechanic fractures

End of RQD ; 146 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
9.60	71.00	idb			5	0	0	1	0	94	1
71.00	85.90	IF-F			35	0	0	2	0	68	0
86.75	93.50	IF-G			20	0	15	5	0	60	0
93.50	97.20	IF-F			30	0	5	2	0	63	0
99.25	101.90	IF-F			30	0	1	0	0	69	0
104.25	112.75	IF-F			35	2	3	0	0	60	0
112.75	119.25	IF-G			25	0	15	2	0	58	0
119.60	121.50	IF-G			25	2	15	2	0	56	0
124.60	131.40	IF-F			35	0	2	0	0	63	0
131.40	145.40	IF-G			30	1	12	2	0	65	0
145.40	151.50	IF-F			35	1	0	1	0	63	0
152.00	170.00	IF-F			40	0	2	0	0	58	0
170.00	172.35	IF-G			25	1	8	0	0	66	0
172.80	173.00	IF-G			15	0	10	0	0	75	0
173.00	178.35	IF-F			30	0	4	0	0	66	0
178.35	179.20	IF-G			20	0	15	0	0	65	0
179.20	197.65	IF-F			40	3	1	1	0	55	0
200.60	206.60	IF-G			25	0	10	0	0	65	0
206.60	217.15	IF-F			40	5	0	1	0	54	0
217.15	218.00	IF-G			20	0	12	0	0	68	0
218.00	222.20	IF-F			30	0	0	0	0	70	0
222.20	223.10	IF-G			10	0	30	0	0	60	0
223.80	232.60	IF-F			35	4	0	1	0	60	0
232.60	236.10	IF-G			20	0	30	0	0	50	0
236.10	244.90	IF-F			40	0	0	0	0	60	0



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
244.90	250.70	IF-G			15	0	12	15	3	55	0
252.20	253.60	IF-G			15	0	20	0	0	65	0
253.60	259.40	IF-F			35	3	0	1	1	60	0
260.60	276.25	IF-F			40	1	0	1	1	57	0
276.25	279.25	IF-G			20	0	8	15	2	55	0
281.00	287.00	IF-G			25	0	5	10	0	60	0
287.00	288.10	IF-F			35	0	0	0	0	65	0
288.70	293.00	IF-F			30	0	0	0	1	69	0
294.10	313.00	IF-F			50	0	0	1	0	49	0
314.45	317.40	IF-F			25	0	0	0	2	73	0
318.00	353.00	IF-F			35	0	0	3	3	59	0
353.00	364.10	IF-G			20	0	10	0	5	45	0
365.90	368.90	IF_F			30	0	0	0	2	68	0
370.40	425.00	IF-F			35	5	3	2	2	53	0
428.20	435.00	IF-G			25	0	8	1	1	65	0

End of Mineralizations ; 40 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
4.00	40.00	Vcc	
11.00	35.00	Vcc	fractured plane + CaCO3
11.50	50.00	Vcc	
12.00	60.00	Vcc	
15.00	45.00	Vcc	
18.00	20.00	Vcc	
22.50	70.00	Vcc	
26.00	25.00	Vcc	
26.50	25.00	Vcc	
28.50	60.00	Vcc	
29.80	35.00	Vcc	
31.00	60.00	Vcc	CaCO3 + Ep vein
32.00	60.00	Vcc	
35.00	55.00	Vcc	
38.00	55.00	Vcc	+ Ep
38.00	70.00	S0	
38.50	55.00	Vcc	+Ep
38.60	70.00	Vcc	
41.00	60.00	Vcc	
42.00	65.00	Vcc	
45.00	35.00	Vcc	fractured plane + calcite
50.00	40.00	Vcc	
54.00	35.00	Vcc	fractured plane + calcite
57.00	60.00	Vcc	
58.00	35.00	Vcc	fractured plane + calcite

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
62.00	70.00	Vcc	
64.10	70.00	Vcc	epidote + calcite
65.00	85.00	S0	
68.50	80.00	Vcc	calcit veinlets
70.50	45.00	S0	fractured plane
74.50	55.00	S0	Minnesotaite band
74.50	70.00	S0	mgt band
77.40	45.00	S0	Minnesotaite + chert band
77.50	40.00	S0	Mgt band
78.00	40.00	S0	Mgt band
78.40	40.00	S0	Mgt band
79.80	50.00	S0	Mgt band
82.50	70.00	S0	
82.60	60.00	S0	
85.90	85.00	Cnt	contact : IFF and IDB
88.00	60.00	S0	fracture filled with sulfides (Po)
89.50	45.00	S0	fractured plane
89.70	40.00	S0	Mgt band
89.70	60.00	S0	Mgt band
91.60	60.00	Vcc	
92.50	20.00	Vcc	
92.60	60.00	Vcc	
93.00	60.00	S0	Mgt band
94.80	40.00	Vcc	
96.00	55.00	S0	Mgt band

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
98.05	50.00	Vcc	
98.10	20.00	Vcc	
101.00	55.00	Vcc	
103.80	45.00	Vcc	
104.00	70.00	S0	Mgt band
105.00	40.00	S0	
106.70	30.00	Vcc	
106.90	50.00	S0	
107.50	50.00	S0	
109.50	50.00	Vcc	
109.60	44.00	Vcc	
110.40	70.00	Vcc	
110.60	40.00	Vcc	
116.40	40.00	Vcc	
118.80	60.00	S0	Band + Po + Mgt
119.10	60.00	S0	
119.30	85.00	Vcc	
121.90	80.00	Vcc	
122.10	50.00	Vcc	
124.90	70.00	S0	Mgt band
125.00	50.00	S0	Mgt band
127.80	35.00	S0	Mgt band
128.10	35.00	S0	Mgt band
128.20	50.00	S0	Po + Mgt band
130.00	50.00	S0	Mgt band

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
134.00	60.00	S0	Mgt band
134.30	70.00	S0	Mgt band +Minnesotaite
136.00	60.00	S0	Mgt + Po bands
136.90	50.00	S0	Mgt + Minnesotaite mm'tric bands
137.10	50.00	S0	Mgt bands
137.80	70.00	S0	Mgt bands + Po
140.00	60.00	S0	
140.40	60.00	S0	
141.00	30.00	Vcc	
141.10	40.00	S0	
141.20	60.00	S0	
143.40	70.00	S0	Mgt + Minnesotite band
143.70	60.00	S0	
143.70	50.00	S0	
145.00	50.00	Vcc	cm'tric vein + calcite + epidote + chlorite and a carbonte of manganese mineral?
145.50	50.00	S0	Cm'tric Mgt band
146.00	70.00	S0	bedding Mgt- chert
149.00	60.00	S0	
150.40	80.00	S0	
151.20	60.00	S0	
151.50	60.00	Cnt	Contact IF-F and IDB
152.00	70.00	S0	
153.60	45.00	S0	
154.50	40.00	S0	
154.60	50.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
154.70	75.00	S0	
155.00	70.00	S0	
157.70	50.00	S0	
158.50	85.00	S0	
158.70	70.00	Vcc	
161.00	40.00	Vcc	
161.60	70.00	S0	
164.00	70.00	S0	
167.00	70.00	S0	
167.50	85.00	S0	
168.00	70.00	S0	
170.00	70.00	S0	
173.00	60.00	S0	Po + Mgt band
174.00	80.00	S0	
176.00	35.00	S0	
176.20	70.00	S0	
178.60	70.00	S0	
178.90	55.00	S0	Po + Mgt bedding
179.20	70.00	S0	
179.30	80.00	S0	
182.00	70.00	S0	Po band
182.20	40.00	S0	
182.30	75.00	S0	
185.00	65.00	S0	
187.00	70.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
188.40	60.00	S0	
191.00	60.00	S0	
198.00	30.00	Vcc	
200.00	60.00	Vcc	
200.40	60.00	Vcc	
202.00	45.00	S0	
203.40	80.00	S0	
204.00	80.00	S0	
206.00	45.00	Vcc	
206.50	80.00	S0	
209.00	60.00	S0	
211.00	60.00	S0	
215.00	40.00	S0	
215.00	50.00	Vcc	
218.00	60.00	S0	Po +Mgt band
220.40	25.00	S0	
220.60	60.00	S0	
223.00	60.00	S0	
223.40	50.00	S0	
233.00	30.00	S0	Minnesotaite +Mgt band
233.20	75.00	Vcc	
240.00	50.00	S0	deformared banded core zone
242.00	55.00	S0	deformated banded core zone
243.00	30.00	S0	deformared banded core zone
246.00	50.00	S0	



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
246.50	50.00	S0	Mgt + Chert bedding
248.00	50.00	S0	Mgt band
254.00	65.00	S0	
257.00	45.00	S0	
258.50	80.00	S0	
262.00	50.00	S0	
265.00	45.00	S0	
269.05	85.00	S0	
269.20	70.00	S0	
272.00	75.00	S0	
274.90	80.00	S0	
276.00	75.00	S0	Po + Mgt cm'tric band
277.80	60.00	S0	
278.95	70.00	S0	
279.40	55.00	S1	CIS zone, foliation // to the fractured planes
281.10	80.00	S0	
281.20	70.00	S0	
283.00	60.00	S0	bedding + Po
284.10	70.00	S0	bedding + Po
286.00	60.00	S0	bedding + Mgt
287.40	30.00	S0	bedding + mgt
288.20	60.00	Vcc	
288.40	40.00	Vcc	
288.80	75.00	Cnt	
289.00	80.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
290.00	55.00	S0	
292.35	60.00	Cnt	
292.50	70.00	VQ	
293.00	30.00	VQ	
293.50	75.00	Vcc	
295.00	85.00	S0	
296.00	45.00	S0	
297.00	50.00	S0	
297.40	85.00	S0	
298.60	70.00	S0	
299.00	70.00	VQ	
299.20	80.00	S0	
299.60	85.00	VQ	
301.00	85.00	VQ	
301.00	60.00	S0	
302.00	85.00	S0	
302.90	25.00	VQ	
303.00	25.00	S0	
306.50	70.00	S0	
307.00	70.00	VQ	
307.20	50.00	S0	
308.10	70.00	S0	
308.40	60.00	S0	
311.40	70.00	VQ	
311.60	50.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
311.80	75.00	S0	
312.00	70.00	VQ	
314.20	85.00	S0	Siderite + chert band
314.40	45.00	S0	
315.00	80.00	S0	
317.00	20.00	VQ	
317.40	80.00	S0	
319.80	70.00	VQ	
320.00	40.00	S0	
321.00	80.00	S0	
323.50	55.00	VQ	
324.00	75.00	S0	
325.50	60.00	S0	
326.00	35.00	VQ	
326.00	85.00	S0	
327.60	60.00	S0	
330.00	50.00	S0	
331.50	65.00	S0	
332.50	70.00	S0	
334.50	40.00	VQ	
334.60	70.00	S0	
337.00	85.00	S0	
338.60	75.00	S0	
340.00	40.00	VQ	
341.40	80.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
344.80	85.00	S0	
348.00	80.00	S0	
351.00	55.00	S0	
352.00	40.00	S0	
353.00	30.00	S0	
353.20	60.00	S0	
356.00	70.00	S0	
357.00	80.00	S0	
358.60	80.00	S0	
359.20	70.00	S0	
360.00	60.00	S0	
362.00	85.00	S0	
363.00	80.00	S0	
364.60	70.00	S0	
365.50	60.00	Vcc	
367.90	40.00	S0	
368.10	80.00	S0	
369.00	75.00	S0	Po band
369.70	70.00	S0	
370.60	25.00	Vcc	Siderite veinlet
371.00	50.00	S0	
371.50	85.00	S0	
375.00	60.00	S0	
376.50	80.00	S0	
377.50	85.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
379.00	50.00	S0	
381.00	60.00	S0	
383.00	50.00	S0	
385.00	40.00	S0	
386.40	60.00	S0	
388.00	40.00	S0	
389.10	50.00	S0	
392.00	80.00	S0	
395.40	75.00	VQ	
397.80	50.00	VQ	
401.50	70.00	VQ	
402.00	85.00	S0	
412.80	85.00	S0	
415.50	60.00	S0	
418.00	85.00	S0	Jasper bands
419.00	70.00	S0	
420.00	80.00	S0	
420.40	60.00	S0	
422.40	70.00	S0	
425.20	70.00	Vcc	
428.00	60.00	S0	
431.10	80.00	S0	
431.40	65.00	S0	
431.80	60.00	S0	Minnesotaite band
434.00	80.00	S0	Minnesotaite band

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Structures:*

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
436.00	60.00	Vcc	
440.00	60.00	Vcc	
443.50	50.00	VQ	
446.00	50.00	VQ	

End of Structures ;            279 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-01

<b>Easting:</b> 413169.60	<b>Northing:</b> 5334044.80	<b>Elevation:</b> 437.60
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 110.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> Orbit Garant Drilling
<b>Started:</b> 29/08/11	<b>Finished:</b> 01/09/11	<b>Logged By:</b> K.Sarabia
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
25.00	223.90	0.00	-44.70		Inactive
110.00	233.90	0.00	-45.10		Inactive

50.00	210.30	0.00	-44.60		Inactive
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End of Deviations ; 3 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	0.00	9.00	OVB - none core recovered																		
2	9.00	9.10	IDD - medium grained intermediate dike, Diorite, moderate magnetism.																		
0	9.10	15.00	IF-H - Deformed and brecciated texture, silicified Siderite + Chert and Lean Magnetite bands, sulfides fine disseminated up to 8-10 % in some fractured planes and fractured matrix, strong to moderate oxidation in some broken planes and surfaces. Fault zone.	144218	9.10	15.00	5.90	64.00	0.78	23.20	1.09	0.25	0.02	0.01	0.04	0.09	0.05	0.07	0.01	0.97	
0	15.00	25.65	IF-G - strong oxidation, fine disseminated Pyrite up to 15%, strong to moderate FeOx + Goethite + Hematite presence, rusty Py cubes, strong to moderate magnetism, strong Massive magnetite bands >> Chert + Siderite layers. Oxidation Zone.	144219 144220	15.00 21.00	21.00 27.00	6.00 6.00	50.50 51.80	0.39 0.52	42.00 42.30	0.42 0.38	0.09 0.09	0.15 0.02	0.01 0.01	0.01 0.01	0.06 0.07	0.02 0.01	0.01 0.01	0.01 0.01	0.52 0.08	
1	25.65	26.60	IF-H - brecciated Siderite + cherty core, lean to none magnetism, sulfides trace up to 2% fine disseminated.																		
0	26.60	35.50	IF-G - Massive Magnetite >> Chert bands, strong oxidized and deformed banded core, strong to moderate vuggy texture in the cherty + FeOx layers. Strong boxwork presence, sulfides fine disseminated in broken planes and fractures, strong to weak magnetism.	144221 144222	27.00 33.00	33.00 39.00	6.00 6.00	44.00 53.30	0.18 0.39	50.40 37.20	0.06 1.01	0.02 0.09	0.01 0.01	0.01 0.01	0.01 0.01	0.24 0.02	0.01 0.05	0.01 0.01	0.01 0.01	0.39 0.42	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
2	35.50	35.70	IF-H - siderite + Chert banded core, sulfides and Minnesotaite trace in fractures and veinlets, none magnetism.																		
0	35.70	47.00	IF-G - strong oxidized deformed banded core, strong FeOx presence and rusty fractured core, strong weathering and boxwork texture, Rusty silfides fine disseminated in deformed bands and fractured groundmass.	144223 144224 144225	39.00 42.00 45.00	42.00 45.00 51.00	3.00 3.00 6.00	47.70 49.80 55.50	0.27 0.14 0.33	47.30 32.50 30.50	0.20 1.79 1.53	0.03 0.27 0.21	0.01 0.01 0.01	0.01 0.01 0.01	0.01 0.01 0.02	0.03 0.06 0.05	0.01 0.09 0.07	0.01 0.01 0.01	0.01 0.01 0.01	0.24 0.60 0.74	
0	47.00	58.10	IF-H - Siderite + Chert >> Magnetite rich to lean bands, deformed banded core, sulfides trace up to less than 5%, Minnesotaite trace to 4% filling fractures and broken planes.	144226 144227	51.00 57.00	57.00 61.15	6.00 4.15	44.60 42.60	0.31 0.15	35.80 40.70	1.89 1.44	0.51 0.35	0.01 0.01	0.01 0.01	0.03 0.01	0.11 0.08	0.06 0.05	0.01 0.01	0.01 0.01	0.32 0.25	
0	58.10	61.15	IF-G - Magnetite rich > Minnesotaite + Chert + Siderite bands, moderate to strong magnetism, Py fine disseminated filling fractures and broken planes.																		
2	61.15	63.95	IF-F - Massive Magnetite banded core >> Chert bedding + Magnetite rich, deformed banded core, sulfides trace, strong magnetism and silicification.	144228	61.15	64.60	3.45	46.60	0.53	46.20	1.08	0.22	0.01	0.06	0.03	0.10	0.03	0.01	0.01	0.06	
2	63.95	64.15	IDD - Weathered and oxidized																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
2	64.15	64.60	intermediate dike with sulfides trace up to 3-4%, fine to medium grained core.  IF-F - Massive Magnetite >> Chert bands, sulfides trace, strong magnetism.																		
0	64.60	72.10	IF-G - Siderite + Chert >> Magnetite rich to lean bedding, sulfides fine disseminated up to 10-15% (Py). Magnetite rich deformed bands are observed in the middle part. Increase of sulfides at the lower contact.	144230 144231	64.60 69.00	69.00 75.00	4.40 6.00	51.10 45.20	0.19 0.12	31.70 39.30	1.69 1.48	0.28 0.32	0.01 0.01	0.01 0.01	0.02 0.01	0.06 0.09	0.08 0.06	0.02 0.01	0.01 0.01	1.62 1.92	
0	72.10	78.00	IF-H - Deformed banded core, Siderite + Chert + Magnetite rich to lean bands, sulfides trace up to less than 4-5%, Pyrite fine disseminated filling fractures and broken planes, moderate to weak magnetism.	144232	75.00	78.00	3.00	46.60	0.04	34.90	2.17	0.42	0.01	0.01	0.01	0.10	0.08	0.01	0.01	0.20	
0	78.00	90.00	IF-G - siderite + Chert + rich Magnetite and minor magnetite banded core, deformed and sheared in some intervals, intense presence of sulfides (Py up to 40%) is observed in the core that is more magnetic and have also Chert + quartz veins. Fine to ultra-fine grained and vuggy textures, siderite and Minnesotaite trace up to 10-12%.	144233 144234	78.00 84.00	84.00 90.00	6.00 6.00	39.20 44.60	0.34 0.47	39.50 36.60	1.29 1.57	0.17 0.19	0.01 0.01	0.01 0.01	0.02 0.02	0.04 0.05	0.07 0.14	0.01 0.01	0.01 0.01	13.80 7.63	
1	90.00	92.55	IF-H - Oxidized Siderite + Chert deformed and banded core, weak to none magnetism, rusty Py trace up to 5-8%, Strong to	144235	90.00	96.00	6.00	52.40	0.15	31.50	2.13	0.24	0.01	0.01	0.01	0.09	0.22	0.01	0.01	1.19	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
0	92.55	99.00	IF-G - rich Magnetite minor to moderate + Chert bands, Minnesotaita trace and siderite up to 20%, cherty core at the lower contact with strong sulfides filling bedding + fractures and broken planes. At the upper contact magnetism is strong and at the bottom weak or none.	144236	96.00	102.00	6.00	69.00	0.52	19.80	1.05	0.15	0.01	0.01	0.02	0.08	0.18	0.02	0.01	4.35
0	99.00	106.20	SLC - Chert + weak to none magnetite bands, sulfides fine disseminated in fractures and veinlets, siderite and Minnesotaita are filling fractures and come bands.	144237	102.00	108.00	6.00	75.40	0.19	17.60	0.62	0.15	0.01	0.01	0.01	0.09	0.06	0.01	0.01	1.07
0	106.20	107.75	IF-H - Siderite + rich Magnetite minor to moderate + Chert deformed banded core, strong oxidized zone at 106.65m to 107.75m.																	
0	107.75	108.00	IDD - Weathered and altered medium grained intermediate dike.																	
0	108.00	110.00	IF-H - Siderite + Chert + rich Magnetite minor to moderate bands, strong oxidation and FeOx presence is observed, vuggy quartz, leached core.	144238	108.00	110.00	2.00	55.80	0.10	39.70	0.02	0.01	0.01	0.01	0.01	0.14	0.01	0.01	0.01	0.03

End of Lithology and Assays ;

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talRecover	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
9.00	12.00	3.00	0.00	0.00	3.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	extremely bad recovery and broken core
12.00	15.00	3.00	0.00	0.00	2.20	0.00	1.85	0.00	0.00	0.00	0.00	0.00	extremely broken and fractured core- oxidized core
15.00	18.00	3.00	0.00	0.00	2.25	0.00	1.65	0.00	0.00	0.00	0.00	0.00	extremely broken and fractured core- oxidized core
18.00	21.00	3.00	0.00	0.00	2.30	0.00	1.60	0.00	0.00	0.00	0.00	0.00	extremely broken and fractured core - oxidized core
21.00	24.00	3.00	0.00	0.00	2.25	0.00	1.90	0.00	0.00	0.00	0.00	0.00	extremely broken and fractured core- oxidized core
24.00	27.00	3.00	0.00	0.00	1.00	0.00	2.50	0.00	0.00	0.00	0.00	0.00	broken to very broken (bottom)- oxidized core
27.00	30.00	3.00	0.00	0.00	2.65	0.00	1.70	0.00	0.00	0.00	0.00	0.00	extremely bad recovery and broken core -oxidized core
30.00	33.00	3.00	0.00	0.00	2.20	0.00	1.90	0.00	0.00	0.00	0.00	0.00	extremely bad recovery and broken core- oxidized core
33.00	36.00	3.00	0.00	0.00	2.20	0.00	2.00	0.00	0.00	0.00	0.00	0.00	very fractured and broken core- oxidized core
36.00	39.00	3.00	0.00	0.00	2.35	0.00	2.10	0.00	0.00	0.00	0.00	0.00	very fractured and broken core- oxidized core
39.00	42.00	3.00	0.00	0.00	2.30	0.00	2.15	0.00	0.00	0.00	0.00	0.00	very fractured and broken core- oxidized core
42.00	45.00	3.00	0.00	0.00	1.55	0.00	2.60	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
45.00	48.00	3.00	0.00	0.00	1.90	0.00	2.40	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
48.00	51.00	3.00	0.00	0.00	2.60	0.00	1.70	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core
51.00	54.00	3.00	0.00	0.00	1.40	0.00	2.60	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
54.00	57.00	3.00	0.00	0.00	0.60	0.00	2.65	0.00	0.00	0.00	0.00	0.00	fractured core
57.00	60.00	3.00	0.00	0.00	1.20	0.00	2.35	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
60.00	63.00	3.00	0.00	0.00	0.60	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
63.00	66.00	3.00	0.00	0.00	1.45	0.00	2.25	0.00	0.00	0.00	0.00	0.00	very fractured and broken core

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>%ces&gt;100</i>	<i>CalculRQP</i>	<i>%ces&lt;100</i>	<i>talRecover</i>	<i>Recovery</i>	<i>Fractures</i>	<i>acts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
			<i>%</i>		<i>%</i>								
66.00	69.00	3.00	0.00	0.00	1.45	0.00	2.40	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core
69.00	72.00	3.00	0.00	0.00	1.30	0.00	2.50	0.00	0.00	0.00	0.00	0.00	very fractured core
72.00	75.00	3.00	0.00	0.00	0.85	0.00	2.65	0.00	0.00	0.00	0.00	0.00	mechanic fractures
75.00	78.00	3.00	0.00	0.00	1.00	0.00	2.50	0.00	0.00	0.00	0.00	0.00	mechanic fractures
78.00	81.00	3.00	0.00	0.00	1.10	0.00	2.50	0.00	0.00	0.00	0.00	0.00	mechanic fractures
81.00	84.00	3.00	0.00	0.00	0.75	0.00	2.60	0.00	0.00	0.00	0.00	0.00	fractured and mechanic fractures
84.00	87.00	3.00	0.00	0.00	1.40	0.00	2.40	0.00	0.00	0.00	0.00	0.00	fractured and broken core
87.00	90.00	3.00	0.00	0.00	1.50	0.00	2.15	0.00	0.00	0.00	0.00	0.00	fractured and broken core
90.00	93.00	3.00	0.00	0.00	1.30	0.00	2.25	0.00	0.00	0.00	0.00	0.00	fractured and broken core
93.00	96.00	3.00	0.00	0.00	1.70	0.00	2.45	0.00	0.00	0.00	0.00	0.00	fractured and broken core
96.00	99.00	3.00	0.00	0.00	1.60	0.00	2.20	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
99.00	102.00	3.00	0.00	0.00	1.80	0.00	2.20	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
102.00	105.00	3.00	0.00	0.00	1.00	0.00	2.55	0.00	0.00	0.00	0.00	0.00	fractured and broken core
105.00	108.00	3.00	0.00	0.00	1.40	0.00	2.20	0.00	0.00	0.00	0.00	0.00	fractured and broken core
108.00	110.00	2.00	0.00	0.00	1.50	0.00	1.65	0.00	0.00	0.00	0.00	0.00	very fractured an dbroken core- 2 feet CNR

End of RQD ; 34 record(s) printed.





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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
15.00	42.00	Oxidized		
90.00	92.25	Oxidized		
106.65	110.00	Oxidized		

End of Alterations ;            3 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
9.10	15.00	IF-H			6	1	0	3	25	65	0
15.00	25.65	IF-G			40	10	0	5	0	45	0
25.65	26.60	IF-H			2	0	0	1	35	60	0
26.60	35.50	IF-G			15	20	0	10	0	55	0
35.50	35.70	IF-H			4	0	0	1	35	60	0
35.70	47.00	IF-G			30	15	0	20	0	35	0
47.00	58.10	IF-H			10		0	4	30	66	0
58.10	61.15	IF-G			15	0	0	10	25	50	0
61.15	63.95	IF-F			45	2	0	1	0	52	0
64.15	64.60	IF-F			40	0	0	1	0	59	0
64.60	72.10	IF-G			15	0	0	10	35	40	0
72.10	78.00	IF-H			10	0	0	4	35	51	0
78.00	90.00	IF-G			25	0	0	40	12	23	0
90.00	92.55	IF-H			10	0	0	5	20	65	0
92.55	99.00	IF-G			5	0	0	15	25	55	0
106.20	107.75	IF-H			15	0	0	5	20	60	0
108.00	110.00	IF-H			15	0	0	8	20	57	0

End of Mineralizations ; 17 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
14.70	40.00	S0	Siderite + Chert bedding
33.40	55.00	S0	Mag Massive
33.50	40.00	S0	fracture
34.00	35.00	VQ	vein + qtz + fracture
34.40	55.00	S0	Mag Massive
41.50	45.00	S0	Mag rich
41.70	60.00	S0	Chert
42.20	65.00	S0	fractures
42.50	55.00	S0	Siderite
42.60	70.00	S0	
53.00	40.00	S0	Siderite + Chert
55.00	55.00	S0	Sid + Chert
57.00	50.00	S0	Mag lean + Chert
64.00	45.00	S0	Mag Massive
64.70	50.00	S0	Sid + Chert
65.50	60.00	S0	Side + Chert
68.00	80.00	S0	Py band
68.20	70.00	S0	Mag
68.80	60.00	S0	Mag + Chert
69.50	80.00	S0	Mag + Chert
69.80	60.00	S0	Mag + Chert + Sid
70.00	40.00	S0	Sid + Mag
72.10	50.00	S0	Py band
72.50	50.00	S0	Mag + Sid
77.50	40.00	S0	Sid + Chert

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
78.15	60.00	S0	Py band
80.00	30.00	S0	Sid + Chert + lean Mgt
81.00	40.00	S0	lean Mgt + Chert + Sid bedding
83.50	50.00	S0	Py band
85.00	50.00	S0	sid + Chert + lean Mgt
91.50	50.00	S0	Sid + Chert
92.55	70.00	S0	Py band
93.00	30.00	S0	Massive Mgt Oxidized band
99.40	40.00	S0	fractures + Sid
99.50	50.00	S0	Mns mm'tric bands
101.50	70.00	S0	Py band
102.50	70.00	S0	Py band
109.00	60.00	S0	Oxidized Mgt + Chert band

End of Structures ; 38 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-**RadioHill** DDH2011.accdb*

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**Hole:** RH-11-02

**Easting:** 413002.80      **Northing:** 5333969.10      **Elevation:** 441.70  
**AltEasting:** 0.00      **AltNorthing:** 0.00      **AltElevation:** 0.00  
**Azimuth:** 180.00      **Dip:** -45.00      **Length:** 171.00 m.  
**AltAzimuth:** 0.00

**Hole Type:** DDH      **Zone:** Radio Hill      **Contractor:** Orbit Garant Drilling  
**Started:** 01/09/11      **Finished:** 03/09/11      **Logged By:** K.Sarabia

**Claim Number:**      **Cemented:**       **Surveyed:**       **Casing:**

**Township:**

**Description:** Extention Drilled 23/11/2011 - 23/11/2011 - logged by Matthew Halliday

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
24.00	233.00	0.00	-45.00	EZ Shot	Inactive
120.00	195.10	0.00	-44.80	EZ Shot	Active

End of Deviations ; 4 record(s) printed.

50.00	206.40	0.00	-45.50	EZ Shot	Inactive
171.00	205.30	0.00	-44.50	EZ Shot	Active



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	0.00	4.00	OVB - no core recovered																		
2	4.00	4.05	IDD - moderate rust in the fractured plane, medium to fine grained intermediate dike.	144240	4.00	9.00	5.00	51.90	0.10	30.10	2.28	0.41	0.01	0.01	0.01	0.08	0.19	0.01	0.01	0.69	
0	4.05	12.00	IF-H - Siderite + Chert + rich to lean Magnetite bedding, strong to moderate oxidation present in fractures, broken planes and veinlets, sulfides trace up to 10 % + rusty trace of disseminated Pyrite and dissolved away from the host rock, deformed banded core. At the lower contact magnetism is stronger.	144241	9.00	12.00	3.00	43.10	0.12	38.10	2.31	0.43	0.01	0.01	0.01	0.11	0.10	0.01	0.01	0.06	
1	12.00	14.20	IF-F - rich Magnetite + Chert + Siderite minor to moderate bands, deformed banded core in some sections, moderate oxidation in broken planes, strong to moderate magnetism, sulfides trace up to less than 5%.	144242	12.00	15.00	3.00	45.00	0.10	41.40	1.85	0.44	0.01	0.01	0.01	0.11	0.05	0.01	0.01	0.05	
0	14.20	19.25	IF-H - Siderite + chert + rich to lean Magnetite bands, Minnesotaitite trace up to 2-3%, sulfides up to 4% fine disseminated in veinlets and fractures, sheared core, micro-faults observed in the deformed core, low to moderate oxidized core.	144243	15.00	19.25	4.25	40.60	0.39	37.20	3.06	0.41	0.01	0.01	0.03	0.06	0.13	0.01	0.01	0.71	
0	19.25	45.75	IF-F - Rich Magnetite + chert + Siderite + Jasper minor bands. Silicified and banded	144244 144245 144246	19.25 24.00 30.00	24.00 30.00 36.00	4.75 6.00 6.00	43.60 48.60 46.80	0.28 0.08 0.06	48.40 46.80 48.70	1.43 1.06 1.38	0.18 0.11 0.35	0.01 0.01 0.01	0.01 0.01 0.01	0.01 0.01 0.01	0.07 0.06 0.07	0.04 0.02 0.02	0.01 0.01 0.01	0.01 0.01 0.01	0.05 0.16 0.03	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
			core, oxidized core at the top, Minnesotaite is filling some fractures and bands, strong magnetism, minor Jasper bands are present in the middle part, veinlets + qtz cross-cutting the bedding, Py and Ccp trace up to less than 2% (40.55 m).	144248	36.00	39.00	3.00	40.80	0.09	56.20	0.97	0.28	0.01	0.02	0.01	0.06	0.02	0.01	0.01	0.06
				144249	39.00	45.00	6.00	44.50	0.04	52.00	1.11	0.12	0.01	0.01	0.01	0.06	0.02	0.01	0.01	0.03
				144250	45.00	51.00	6.00	47.30	0.07	43.60	1.18	0.13	0.01	0.02	0.01	0.03	0.03	0.01	0.01	0.11
1	45.75	46.75	IF-H - Deformed Banded core, Siderite + Chert + rich to minor Magnetite bands, moderate to strong magnetism in isolated bands, brecciated upper contact, sulfides trace up to less 2%.																	
1	46.75	49.00	IF-F - Deformed banded core, rich Magnetite + Chert bands, siderite trace to 2%, strong to moderate Magnetism, low to moderate oxidation present in broken planes, rusty sulfides trace.																	
1	49.00	50.65	IF-H - deformed banded core, Siderite + Chert + lean Magnetite bands, brecciated to very fine grained texture, sulfides (Py) trace fine disseminated in a localized fracture, low oxidized broken planes.																	
1	50.65	52.80	IF-F - rich to Magnetite + Chert + Siderite trace bands, deformed banded core, fine to ultra fine grained texture, strong to moderate magnetism.	144251	51.00	57.00	6.00	43.40	0.12	45.80	1.38	0.21	0.02	0.01	0.01	0.06	0.02	0.01	0.01	0.03

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
1	52.80	54.50	IF-H - brecciated and deformed banded core, Siderite + Chert + minor to rich Magnetite bands, moderate to strong magnetism in some Mgt deformed bands.																		
0	54.50	64.60	IF-F - irregular banded core, rich to massive Magnetite + Chert + Siderite trace bands, some planes of weakness are oxidized, sulfides trace up to less than 5 % (rusty), some layers have a moderate Siderite presence in veinlets and bedding.	144252 144253	57.00 63.00	63.00 66.00	6.00 3.00	44.10 47.50	0.11 0.13	48.10 42.80	1.23 1.08	0.09 0.18	0.01 0.01	0.01 0.01	0.01 0.01	0.02 0.05	0.03 0.02	0.01 0.02	0.01 0.01	0.03 0.16	
0	64.60	72.00	IF-H - brecciated and deformed banded core, Siderite + Chert + Minnesotaite trace + minor Magnetite bands, strong oxidized broken segments at the lower contact, fault zone, Minnesotaite is filling veinlets and fractures.	144254	66.00	72.00	6.00	45.90	2.10	35.50	2.15	0.22	0.01	0.01	0.14	0.03	0.08	0.02	0.01	0.08	
0	72.00	75.30	IF-F - brecciated core, rich to minor Magnetite + Minnesotaite + Chert + siderite trace bands, strong oxidation at the upper contact, the bedding is folded and faulted in some sections, sulfides trace up to less than 5%.	144255	72.00	78.00	6.00	45.80	0.22	38.50	1.82	0.28	0.01	0.01	0.01	0.04	0.05	0.01	0.01	0.08	
1	75.30	78.00	IF-H - deformed banded core, Siderite + Chert + lean Magnetite bands, sulfides trace up to less 2%, isolated oxidized broken planes.																		
0	78.00	93.00	IF-G	144256	78.00	84.00	6.00	42.70	0.79	34.80	2.57	0.39	0.01	0.15	0.03	0.06	0.10	0.01	0.01	0.71	

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
			- Chert + lean to rich Magnetite + Minnesotaite banded core, brecciated texture and deformed bedding, Py fine disseminated filling fractures, broken planes and Mns bands, low to moderate oxidized intervals at the bottom.	144258 144259	84.00 90.00	90.00 93.00	6.00 3.00	57.30 57.70	1.47 0.60	25.40 28.10	1.88 1.22	0.27 0.26	0.01 0.01	0.11 0.01	0.08 0.02	0.05 0.02	0.12 0.08	0.02 0.01	0.01 0.01	0.78 0.12
0	93.00	99.75	SLC - brecciated and banded core, Chert + Minnesotaite + lean Magnetite and Siderite bands, Chert + Minnesotaite >> Siderite + lean Mgt bedding, sulfides trace less than 2%, weak to low magnetism.	144260 144261	93.00 99.00	99.00 102.00	6.00 3.00	41.80 53.90	1.49 3.50	36.70 31.60	2.15 1.40	0.37 0.14	0.01 0.01	0.01 0.01	0.07 0.16	0.04 0.02	0.12 0.03	0.01 0.01	0.01 0.01	0.07 0.17
0	99.75	113.60	IF-F - brecciated and deformed banded core, rich Mns + Chert bands, low and weak magnetism, silicified core, Siderite and sulfides trace up to 3-4%, strong oxidized zone at the upper contact.	144262 144263 144264	102.00 105.00 111.00	105.00 111.00	3.00 6.00 6.00	63.80 53.10 52.30	6.48 8.82 5.10	22.50 27.10 28.90	1.54 2.57 2.51	0.06 0.20 0.20	0.01 0.01 0.01	0.04 0.13 0.02	0.27 0.39 0.25	0.05 0.07 0.07	0.05 0.12 0.11	0.02 0.01 0.01	0.01 0.02 0.01	0.40 0.24 0.43
0	113.60	117.20	FZ - shear zone, brecciated and deformed core, foliation is observed and Py cube are disseminated in this interval, fractured matrix is filled with Mns + Siderite and Chert, is a transitional zone cause we notice an increase of % of Siderite and also fragments of a rich to minor Mgt band, moderate oxidaton in broken planes, sulfides (rust) up to less than 5%.	144266	117.00	120.00	3.00	50.00	1.12	33.80	1.84	0.25	0.02	0.03	0.05	0.06	0.06	0.01	0.01	0.45
1	117.20	119.50	IF-H - brecciated banded core, Siderite + Chert + minor Mgt bands, Mns trace up to 2%, sulfides fine disseminated in the shear zone, moderate to low oxidized broken planes and core sections, lean magnetism at the																	

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
			top and moderate at the bottom.																		
2	119.50	120.00	IF-G - Oxidized banded core, rich Mgt + Chert + Siderite trace bands, very fractured core and vuggy texture observed in the core, sulfides fine disseminated up to 5%, strong magnetism.																		
0	120.00	137.27	IF-G - M.Halliday (Dec 03- 2011) - Fault zone sheared and brittle core. Very poor recovery, lots of void space. Oxidized core, Parts of the iron are completely oxidized replaced, others half replaced, some sections have seather pyrite and siderite replacements. Some sections of silicified cherts with sulfide erplacements. The colour ranges from red to red brown to white and tans.magnetic iron content around 15% and other forms make it almost 30-40%.																		
1	120.00	137.27	FZ - above																		
2	120.00	121.00	FZ - mud fill extremely oxidized, can be crushed with bare hands	104929	120.00	126.00	6.00	55.10	7.50	26.60	2.13	0.08	0.02	0.30	0.41	0.13	0.01	0.04	0.01	1.06	
				104930	126.00	132.00	6.00	58.90	0.78	28.00	1.34	0.14	0.02	0.01	0.04	0.05	0.07	0.01	0.01	2.27	
				104931	132.00	137.27	5.27	58.40	2.81	24.40	2.92	1.57	0.32	0.01	0.14	0.09	0.08	0.02	0.01	1.10	
1	136.12	137.27	IDD - dyke, grey with quartz veining,																		

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	137.27	149.00	sheared, oxidized fractures IF-F - sheared and folded bands of IFF - alternation between chert and iron units, some replacement of iron by sulfides, some small intrusions of idd, less than 10cm, some of the fractures are oxidized, but not much. Iron banding is on average between 45 and 70 degrees, though distorted and displaced in sections, iron thicknes is between 1mm and 15mm bands. The core has a medium gray chert appearance.	104932 104933	137.27 143.00	143.00 149.00	5.73 6.00	49.50 44.20	0.55 1.12	36.70 37.90	1.92 2.57	0.55 0.56	0.01 0.01	0.01 0.01	0.02 0.21	0.09 0.08	0.08 0.13	0.01 0.02	0.01 0.01	1.32 0.50	
0	149.00	153.72	IF-H - siderite replacement zone, less than 10% mag, siderite has replace most of the bands, some pyritization, however there a a few fractures, disseminated pyrite in the siderite, and some cpy, where the siderite is crossed by veins, the veins become filled with coarse siderite and minor minnesotite. Very little magnetite left in the center, mostly on the outside of the zone,	104934	149.00	153.72	4.72	46.30	0.50	33.20	2.68	0.65	0.01	0.01	0.04	0.10	0.11	0.01	0.01	0.24	
0	153.72	158.30	IF-F - light-medium gray, bedding at a low angle, 35-45% iron, iron beds range between 5mm-35mm, mild chloritization, cherts are mostly light grey. Ends abruptly at the sediments.	104935	153.72	158.30	4.58	48.50	0.59	36.70	3.47	1.59	0.01	0.01	0.03	0.08	0.11	0.01	0.01	0.62	
0	158.30	171.00	SM - light grey green, fine grained and quartz rich, a small amount of disseminated pyrite. Irregular calcite veining.	104936	158.30	164.20	5.90	56.90	14.00	6.62	2.86	6.14	3.23	1.42	0.60	0.15	0.08	0.04	0.03	0.02	
1	164.20	164.80	VB																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
			- lamphrophyre dyke, weakly magnetic phlogopite, biotite, olivine, calcite, weakly magnetit																		

End of Lithology and Assays ;

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-**RadioHill DDH2011.accdb***

**RQD:**

<b>From</b>	<b>To</b>	<b>length</b>	<b>Pces&gt;100</b>	<b>Calcu</b>	<b>RQPces&lt;100</b>	<b>talRecover</b>	<b>Recovery</b>	<b>Fractures</b>	<b>sacts/Leng</b>	<b>Veins</b>	<b>ains/Leng</b>	<b>Angle</b>	<b>Description</b>
4.00	6.00	2.00	0.00	0.00	1.10	0.00	1.35	0.00	0.00	0.00	0.00	0.00	fractured and broken core
6.00	9.00	3.00	0.00	0.00	1.30	0.00	2.45	0.00	0.00	0.00	0.00	0.00	fractured and broken core
9.00	12.00	3.00	0.00	0.00	1.65	0.00	2.25	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
12.00	15.00	3.00	0.00	0.00	1.20	0.00	2.65	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
15.00	18.00	3.00	0.00	0.00	1.20	0.00	2.45	0.00	0.00	0.00	0.00	0.00	fractured and broken core
18.00	21.00	3.00	0.00	0.00	1.50	0.00	2.40	0.00	0.00	0.00	0.00	0.00	fractured and broken core
21.00	24.00	3.00	0.00	0.00	1.55	0.00	2.20	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
24.00	27.00	3.00	0.00	0.00	1.70	0.00	2.30	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
27.00	30.00	3.00	0.00	0.00	1.50	0.00	2.35	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
30.00	33.00	3.00	0.00	0.00	0.70	0.00	2.80	0.00	0.00	0.00	0.00	0.00	fractured and broken core
33.00	36.00	3.00	0.00	0.00	0.50	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured and broken core
36.00	39.00	3.00	0.00	0.00	0.65	0.00	2.65	0.00	0.00	0.00	0.00	0.00	mechanic fractures
39.00	42.00	3.00	0.00	0.00	0.95	0.00	2.50	0.00	0.00	0.00	0.00	0.00	mechanic fractures
42.00	45.00	3.00	0.00	0.00	0.85	0.00	2.85	0.00	0.00	0.00	0.00	0.00	mechanic fractures
45.00	48.00	3.00	0.00	0.00	1.60	0.00	2.40	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
48.00	51.00	3.00	0.00	0.00	1.80	0.00	2.25	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core
51.00	54.00	3.00	0.00	0.00	1.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
54.00	57.00	3.00	0.00	0.00	1.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
57.00	60.00	3.00	0.00	0.00	1.20	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured and broken core
60.00	63.00	3.00	0.00	0.00	1.20	0.00	2.30	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
63.00	66.00	3.00	0.00	0.00	0.85	0.00	2.50	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
66.00	69.00	3.00	0.00	0.00	2.55	0.00	1.90	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
69.00	72.00	3.00	0.00	0.00	2.55	0.00	1.40	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core
72.00	75.00	3.00	0.00	0.00	1.00	0.00	2.40	0.00	0.00	0.00	0.00	0.00	fractured and broken core
75.00	78.00	3.00	0.00	0.00	1.20	0.00	2.30	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
78.00	81.00	3.00	0.00	0.00	1.45	0.00	2.20	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
81.00	84.00	3.00	0.00	0.00	1.05	0.00	2.45	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
84.00	87.00	3.00	0.00	0.00	1.55	0.00	2.35	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
87.00	90.00	3.00	0.00	0.00	2.00	0.00	2.35	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
90.00	93.00	3.00	0.00	0.00	1.40	0.00	2.20	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
93.00	96.00	3.00	0.00	0.00	0.75	0.00	2.65	0.00	0.00	0.00	0.00	0.00	fractured and broken core
96.00	99.00	3.00	0.00	0.00	1.45	0.00	2.30	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
99.00	102.00	3.00	0.00	0.00	2.00	0.00	2.15	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
102.00	105.00	3.00	0.00	0.00	2.00	0.00	2.20	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
105.00	108.00	3.00	0.00	0.00	1.30	0.00	2.30	0.00	0.00	0.00	0.00	0.00	fractured and broken core
108.00	111.00	3.00	0.00	0.00	1.40	0.00	2.45	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
111.00	114.00	3.00	0.00	0.00	1.60	0.00	2.40	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
114.00	117.00	3.00	0.00	0.00	2.00	0.00	2.20	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
117.00	120.00	3.00	0.00	0.00	1.95	0.00	1.95	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core- Shear zone.
120.00	123.00	3.00	0.00	0.00	2.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core + oxidation + soft mud fill - fault zone
123.00	126.00	3.00	0.00	0.00	0.96	0.00	1.20	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core + oxidation - fault zone

*Satellite database created from Rogue-**RadioHill** DDH2011.accdb*

**RQD:**

From	To	length	%ces>100	Calcu	RQP	%ces<100	tal	Recove	Recovery	Fractures	sacts/Leng	Veins	ains/Leng	Angle	Description
			%			%									
126.00	129.00	3.00	0.00	0.00	1.09	0.00	2.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core + oxidation - fault zone
129.00	132.00	3.00	0.00	0.00	2.16	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core + oxidation - fault zone
132.00	135.00	3.00	0.00	0.00	1.48	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core + oxidation - fault zone
135.00	138.00	3.00	0.00	0.00	1.63	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core + oxidation - fault zone
138.00	141.00	3.00	0.00	0.00	1.15	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	brittle fractures
141.00	144.00	3.00	0.00	0.00	0.63	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
144.00	147.00	3.00	0.00	0.00	0.86	0.00	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
147.00	150.00	3.00	0.00	0.00	0.84	0.00	3.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	recovered 30cm from last rung
150.00	153.00	3.00	0.00	0.00	0.66	0.00	2.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	I don't know why the recovery is so low, Faille
153.00	156.00	3.00	0.00	0.00	0.78	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
156.00	159.00	3.00	0.00	0.00	0.04	0.00	2.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
159.00	162.00	3.00	0.00	0.00	0.28	0.00	3.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
162.00	165.00	3.00	0.00	0.00	0.33	0.00	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
165.00	168.00	3.00	0.00	0.00	0.11	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
168.00	171.00	3.00	0.00	0.00	0.14	0.00	3.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

End of RQD ; 56 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
4.05	19.30	Oxidized		
99.75	102.45	Oxidized		
119.50	120.00	Oxidized		
120.00	136.00	Oxidized		

End of Alterations ; 4 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
4.05	12.00	IF-H			16	0	0	4	30	50	0
12.00	14.20	IF-F			30	0	0	2	10	58	0
14.20	19.25	IF-H			8	0	0	2	25	65	0
19.25	45.75	IF-F			40	1	0	2	2	55	0
45.75	46.45	IF-H			8	0	0	1	20	71	0
46.45	49.00	IF-F			35	0	0	1	2	63	0
49.00	50.65	IF-H			5	0	0	1	34	60	0
50.65	52.80	IF-F			25	0	0	1	3	71	0
52.80	54.50	IF-H			4	0	0	1	25	70	0
54.50	64.60	IF-F			30	0	0	2	3	65	0
64.60	72.00	IF-H			15	0	0	4	31	50	0
72.00	75.30	IF-F			25	0	0	4	11	60	0
75.30	78.00	IF-H			10	0	0	1	24	65	0
78.00	93.00	IF-G			10	0	0	12	3	75	0
93.00	99.75	SLC			8	0	0	2	10	80	0
99.75	113.60	IF-F			15	0	0	3	2	80	0
117.20	119.50	IF-H			5	0	0	4	31	60	0
119.50	120.00	IF-G			30	0	0	5	2	63	0
120.00	137.27	IF-G			10	25	0	5	5	50	0
137.27	149.00	IF-F			40	0	2	5	2	50	0
149.00	153.72	IF-H			5	0	0	3	30	55	0
153.72	158.30	IF-F			40	0	0	10	0	50	0

End of Mineralizations ; 22 record(s) printed.





*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
4.15	80.00	S0	lean Magnetite +Siderite bands
4.20	20.00	Flt	
4.75	65.00	S0	lean Magnetite + siderite bands
5.75	70.00	S0	Py band
6.05	70.00	S0	fractured plane
6.90	65.00	S0	lean Mgt + Sid bands
7.40	75.00	S0	Sid + Chert bands
8.60	60.00	S0	Sid + Chert + lean Mgt bands
8.80	65.00	S0	Sid + Chert + lean Mgt bands
9.20	60.00	S0	Sid + Chert + minor Mgt bands
9.50	75.00	S0	Sid + Chert bands
10.00	75.00	S0	Sid + Chert mm'tric bands
10.35	70.00	S0	Sid + Chert bands
10.45	75.00	S0	rich Mag + Chert + Sid bands
12.00	60.00	S0	Rich to massive Mgt band (Oxidized)
12.12	70.00	S0	mm'tric rich Mgt bands
12.50	65.00	S0	rich Mgt bands
12.85	75.00	S0	rich Mgt + Chert bands
12.90	60.00	S0	rich Mgt + Chert bands
13.25	35.00	S0	fractured plane
13.80	85.00	S0	rich to minor Mgt + Chert + Sid bands
15.20	85.00	S0	Sid + Chert bands
18.10	40.00	VQ	
18.50	80.00	S0	Sid + Chert + lean Mgt bands
19.45	75.00	S0	massive to rich Mgt bands (Oxidized)

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
19.55	50.00	S0	rich Mgt + chert bands
19.70	25.00	Flt	fractured plane
19.80	80.00	S0	Mgt + Chert band
20.90	60.00	S0	Mgt + Chert band
21.10	60.00	S0	rich Mgt + Chert bands
21.20	70.00	S0	rich Mgt + Chert bands
21.25	45.00	S0	rich Mgt + Chert bands
21.70	80.00	S0	Massive to rich Mgt + Chert bands
21.80	85.00	S0	Massive to rich Mgt + Chert bands
22.10	70.00	S0	minor Mgt + Chert + Sid band
24.40	30.00	Flt	fractured plane
24.64	80.00	S0	rich Mgt + Chert + Sid bands
24.75	70.00	S0	rich Mgt + Chert bands
25.00	45.00	Flt	fractured plane
25.30	70.00	S0	rich Mgt + Chert + Jasper minor bands
25.55	80.00	S0	massive to rich Mgt + Chert bands
26.95	70.00	S0	rich Mgt + Chert bands
27.00	80.00	S0	rich Mgt + Chert + Jasper minor band
28.20	50.00	S0	rich Mgt + Chert + Sid bands
28.30	60.00	S0	rich Mgt + Chert bands
29.80	70.00	S0	Mgt + Chert + Jasper minor band
29.95	50.00	S0	rich Mgt + Chert band
32.00	40.00	S0	rich Mgt + Chert + Jasper minor band
32.50	75.00	VQ	mm'tric veinlets
34.00	50.00	S0	rich Mgt + Chert + Jasper band

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
35.00	40.00	S0	rich to minor Mgt + Chert bands
36.00	60.00	VQ	
36.20	45.00	S0	rich Mgt + Chert band
36.80	45.00	S0	massive to rich Mgt + Chert band
39.00	60.00	VQ	
39.25	50.00	VQ	
40.50	55.00	VQ	vein + Py trace.vq
40.55	35.00	VQ	vein + Py + ccp trace
42.30	70.00	VQ	
42.50	50.00	S1	
42.80	70.00	S0	Mag + Sid bands
44.00	55.00	S0	Mgt bands
50.80	85.00	S0	Side + Mgt bands
52.00	50.00	VQ	
53.00	80.00	S0	Sid + Mgt bands
58.00	50.00	VQ	
58.50	5.00	S0	fractured plane
59.10	35.00	S0	fractured plane
62.50	45.00	S0	fractured plane
63.50	25.00	VQ	
63.60	65.00	VQ	
64.60	45.00	S0	Mgt band
65.50	65.00	S0	Side band
75.00	40.00	VQ	
75.20	70.00	S0	Mgt + Sid bands

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
75.35	50.00	S0	Sid + mgt bands
75.50	70.00	S0	Sid + Mgt bands
77.00	60.00	S0	Sid + Mgt bands
78.15	35.00	S0	fractured plane
80.00	60.00	S0	Sid + Mgt bands
81.00	60.00	S0	Mgt + Chert band
82.00	80.00	S0	Chert band
83.50	85.00	S0	Chert + Mgt band
83.60	65.00	S0	Py + Mns band
86.00	40.00	S0	Chert + Sid band
87.00	60.00	S0	Chert + Sid band
88.50	50.00	S0	Py + Mns band
94.00	80.00	S0	Chert + lean Mgt bands
96.00	50.00	S0	breccaited Mgt band
99.10	70.00	S0	Chert + lean Mgt + Mns bands
100.50	70.00	S0	Oxidized Chert + Mgt + Mns bands
102.60	15.00	S0	lean Mgt + Mgt bandss1
105.15	70.00	S0	minor Mgt + Mns bands
114.50	40.00	S0	Mns + Sid foliation
114.60	50.00	S0	Mns + Sid foliation
117.20	50.00	S0	fractured plane // to foliation
119.30	40.00	Flt	micro-fault: Sid + Mgt bands
119.65	70.00	S0	oxidized Mgt + Chert bands
119.95	70.00	S0	oxidized Mgt + Chert bands
127.00	60.00	S0	Pyritized band

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Structures:*

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
127.10	45.00	VQ	
137.27	50.00	Cnt	idd and bif, oxidized, gritty
139.00	50.00	S0	banding iron
151.00	25.00	S0	banding sid
164.20	60.00	Cnt	ms and lamp

End of Structures ; 105 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-**RadioHill** DDH2011.accdb*

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**Hole:** RH-11-03

**Easting:** 412875.10      **Northing:** 5334123.20      **Elevation:** 431.60  
**AltEasting:** 0.00      **AltNorthing:** 0.00      **AltElevation:** 0.00  
**Azimuth:** 180.00      **Dip:** -45.00      **Length:** 342.00 m.  
**AltAzimuth:** 0.00

**Hole Type:** DDH      **Zone:** Radio Hill      **Contractor:** Orbit Garant Drilling  
**Started:** 03/09/11      **Finished:** 15/09/11      **Logged By:** J-P Paiement

**Claim Number:**      **Cemented:**       **Surveyed:**       **Casing:**

**Township:**

**Description:** Extention drilled 21/11/2011 - 22/11/2011 - logged by Matthew Halliday

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
24.00	193.70	0.00	-43.10	EZ Shot	Active
100.00	245.00	0.00	-43.90	EZ Shot	Inactive
270.00	213.70	0.00	-44.50	EZ Shot	Inactive
327.00	328.80	0.00	-45.10	EZ Shot	Inactive

50.00	225.40	0.00	-43.20	EZ Shot	Inactive
150.00	197.50	0.00	-43.90	EZ Shot	Active
297.00	235.00	0.00	-44.30	EZ Shot	Inactive
342.00	203.90	0.00	-43.80	EZ Shot	Active

End of Deviations ; 8 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	0.00	10.00	OVB																		
0	10.00	17.70	IF-F - upper contact: broken Core recovered, fragments of Granite, Dirite and banded IF-F core, rich Magnetite + Chert and Minnesotaite bedding, sulfides trace and moderate concentration (up to 8%) in some cm'tric layers, moderate to low oxidation in veinlets and broken surfaces, Siderite trace, strong magnetism, Mns is present in fractured matrix and veinltes + qtz.	144267 144268	10.00 15.00	15.00 18.15	5.00 3.15	49.20 49.90	0.56 1.46	42.50 41.90	1.62 1.82	0.52 0.85	0.04 0.07	0.19 0.25	0.03 0.07	0.13 0.17	0.08 0.06	0.02 0.02	0.01 0.01	0.80 0.15	
2	17.70	18.15	IDD - fine to medium fine grained intermediate dike, weathered at the bottom.																		
0	18.15	21.30	IF-G - rich Magnetite + Chert and Minnesotaite bands with a moderte to stron oxidized broken planes and fractures + sulfides, Py fine disseminated and cubic up to 10-12%, stron magnetism.	144269	18.15	24.00	5.85	56.40	1.92	34.30	2.01	0.86	0.10	0.25	0.10	0.19	0.07	0.03	0.01	1.08	
1	21.30	22.70	IDD - fine to medium grained intermediate dike, wheathered, moderate to low oxidized broken planes.																		
1	22.70	25.35	IF-G - rich Magnetite + Chert and Minnesotaite bands with a moderte to stron oxidized broken planes and fractures + sulfides, Py fine disseminated and cubic up to 10-12%, stron magnetism,	144270	24.00	27.15	3.15	47.30	4.17	39.30	3.46	1.34	0.20	0.45	0.28	0.33	0.04	0.03	0.01	0.08	



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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
1	25.35	27.15	veinlets + qtz cross-cutting the brecciated texture at the lower contact.  IDD - fine to medium grained intermediate dike, weathereed.																		
0	27.15	32.30	IF-F - rich Magnetite non-banded to deformed core, strong magnetism, veinlets + qtz, low HCl response at the upper contact (fractures), strong silicification, brecciated texture in chert fragments, sulfides trace up to 2%, Py patches and fine disseminated in fractures, Minnesotaite trace and moderate FeOx in broken planes.	144271	27.15	33.00	5.85	49.40	0.52	44.30	2.16	0.56	0.02	0.21	0.02	0.15	0.06	0.02	0.01	0.18	
0	32.30	50.65	IF-G - deformed banded core, rich to lean Mgt + rich Chert + minor Minnesotaite bands, strong silicification, weak FeOx presence, none CaCo3 presence, veinlets and fractures + qtz + Mns and sulfides, strong to weak magnetism, folded bedding and brecciated texture in the cherty core, sulfides up to 8-12% Minnesotaite present in the peripheric parts of rich Mgt bands, extensional fractures and some Mgt beds filled with fine disseminated Py. The upper contact has Mgt >> Chert > Mns bands and the lower contact has Chert + Mns >> Mgt + Py bands.	144272 144273 144274	33.00 39.00 45.00	39.00 45.00 51.00	6.00 6.00 6.00	50.30 71.30 75.40	0.51 1.61 0.85	40.90 19.20 18.10	2.22 1.74 1.36	0.80 0.22 0.14	0.01 0.03 0.04	0.14 0.19 0.13	0.03 0.09 0.04	0.16 0.10 0.08	0.08 0.06 0.05	0.01 0.03 0.04	0.01 0.01 0.01	0.47 0.98 1.15	
2	50.65	50.80	IDD - fine grained intermediate dike, moderate to low Chl alteration and none Hcl response, medium green.																		

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**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	50.80	75.20	IF-G - brecciated and deformed banded core, rich Magnetite + Mns + Chert bands, strong to moderate magnetism, sulfides fine disseminated up to 8-10% in some fractures and broken planes, Py is filling some rich Mgt bands, low to moderate FeOx presence in fractured planes, brecciated texture at the bottom. From 60 to 63m: Chert + Mns + siderite trace > Mgt bands and increase of Py fine disseminated up 12-15%.	144275 144276 144278 144279 144280	51.00 57.00 63.00 69.00 75.00	57.00 63.00 69.00 75.00 81.00	6.00 6.00 6.00 6.00 6.00	50.60 52.00 52.70 57.90 58.00	0.30 0.94 0.76 2.08 0.47	40.90 37.50 34.60 29.60 36.70	2.61 1.88 1.77 1.70 1.40	0.29 0.57 0.23 0.21 0.30	0.01 0.03 0.02 0.02 0.02	0.15 0.20 0.19 0.24 0.13	0.01 0.04 0.03 0.08 0.15	0.11 0.12 0.08 0.08 0.17	0.13 0.09 0.09 0.13 0.08	0.01 0.02 0.03 0.02 0.03	0.01 0.01 0.01 0.01 0.01	0.61 1.38 0.79 1.00 0.19	
1	75.20	76.30	SLC - deformed banded core, Chert + lea Mgt bedding, sulfides patches and fine disseminated less than 3%. Moderate to weak magnetism, fragments of beds with rich Mgt, low FeOx, none HCl response, veinlets + qtz + Mns cross-cutting the unit.																		
0	76.30	84.60	IF-F - deformed banded core, rich Mgt + Mns + Chert + Jasper trace, the bedding have been folded, moderate Mns is present in fractures nd also in the Mgt bands, strong magnetism, sulfides patches and fine disseminated in Jasper section at 78.65m, lower contact muddy core, very fractured interval (Jasper).	144281	81.00	84.60	3.60	54.20	0.40	40.50	1.52	0.23	0.03	0.19	0.01	0.12	0.07	0.02	0.01	0.25	
0	84.60	89.65	IDD - fine grained intermediate dike, low Chlorite + Epidote + CaCO3 alteration, moderate to weak HCl response at the bottom section, pale medium green, fault zone, extremely broken core.	144282	84.60	89.65	5.05	59.40	15.20	9.32	3.21	0.87	4.09	1.87	0.66	0.33	0.10	0.04	0.02	0.04	

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
0	89.65	93.65	IF-F - deformed banded core, brecciated and extensional texture, fine to ultrafine grained and silicified rock, stron to moderate magnetism, rich Mgt + Mns > Chert + Mns bands, sulfides fine disseminated and patches up to 2-3%.	144283	89.65	93.65	4.00	48.10	1.62	42.80	2.22	1.63	0.26	0.20	0.07	0.15	0.08	0.03	0.01	0.17
0	93.65	99.00	IF-G - rich Mgt + Mns + rich Chert deformed bands, brecciated texture in isolated layers, sulfides fine disseminated up to 20% in the Mgt + Mns bedding and also in fractured planes, low rust, strong to moderate magnetism, strong silicification, intense amount of extensional fractures and veinlets + qtz + Mns + sulfides.	144284	93.65	99.00	5.35	58.00	1.17	31.50	2.00	0.36	0.04	0.44	0.04	0.05	0.10	0.02	0.01	2.73
0	99.00	115.30	IF-F - non banded core, brecciated to ultrafine grained texture, strong magnetism, sulfides trace up to less than 4%, Py fine disseminated in veinlets + fractures an patches, veinlets + Mns + qtz, more cherty core + moderate Mgt concentration at the lower contact.	144285	99.00	105.00	6.00	43.90	0.62	46.20	2.49	1.64	0.03	0.28	0.02	0.14	0.08	0.01	0.01	0.32
1	105.00	106.53	IF-G - Iron formation with quartz and ext. Fine-grained mgt in cm to dm beds. Mgt is replaced locally by minesotatite and Py. Rock is highly fractured with Mn and Py filling.	144286	105.00	111.00	6.00	52.70	1.66	34.10	2.45	1.47	0.04	0.28	0.09	0.16	0.06	0.04	0.01	0.63
1	109.02	109.55	IF-G - Iron formation with quartz and ext. Fine-grained mgt in cm to dm beds. Mgt is replaced locally by minesotatite and Py. Rock is																	

*Satellite database created from Rogue-**RadioHill** DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
			highly fractured with Mn and Py filling. Locally replacement is 100%.																	
0	115.30	120.60	IDB	144287	111.00	115.30	4.30	46.30	0.19	38.50	1.76	0.77	0.01	0.08	0.01	0.09	0.04	0.03	0.01	0.10
			- Altered light green intrusive. Diabase dyke altered to chl-cc. Strong to moderate Hcl Rx. Fine grained with local coarse mx.	144289	115.30	120.60	5.30	38.80	10.70	13.40	8.54	9.73	0.82	0.81	0.74	0.26	0.15	0.11	0.04	0.05
0	120.60	167.75	IF-F	144290	120.60	126.00	5.40	45.60	2.77	33.60	3.09	3.60	0.76	0.17	0.15	0.16	0.08	0.04	0.01	0.26
			- Fine grained iron formation with chert and magnetite beds. Mgt beds range from 1mm to 1 cm. Rock is faulted with micro faults displacing sedimentary contacts. Matrix composed of finely grained chert. Several IF-G intervals where Mgt is replaced by Mn and Py.																	
1	125.50	126.00	IF-G																	
			- White chert matrix with replaced Mgt beds. Mgt is replaced by Py-Mn and fracture filled.																	
1	126.00	126.50	IDB	144291	126.00	129.00	3.00	47.30	0.36	39.90	1.92	0.86	0.01	0.12	0.02	0.11	0.05	0.02	0.01	0.33
			- Altered light green intrusive. Diabase dyke altered to chl-cc. Strong to moderate Hcl Rx. Fine grained with local coarse mx.																	
1	126.50	127.02	IF-G																	
			- White chert matrix with replaced Mgt beds. Mgt is replaced by Py-Mn and fracture filled.																	
				144292	129.00	135.00	6.00	43.90	0.11	45.50	1.78	0.71	0.01	0.04	0.01	0.11	0.04	0.03	0.01	0.05

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>
1	151.10	152.16	IF-G - White chert matrix with replaced Mgt beds. Mgt is replaced by Py-Mn and fracture filled.	144293	135.00	141.00	6.00	45.40	0.07	44.10	2.01	0.67	0.01	0.03	0.01	0.10	0.06	0.02	0.01	0.06
				144294	141.00	147.00	6.00	38.30	0.08	49.50	1.71	0.68	0.01	0.04	0.01	0.11	0.04	0.03	0.01	0.06
				144295	147.00	152.85	5.85	43.60	0.13	45.40	1.59	1.03	0.01	0.06	0.01	0.13	0.05	0.03	0.01	0.38
1	152.85	154.80	IF-G - White chert matrix with replaced Mgt beds. Mgt is replaced by Py-Mn and fracture filled. Locally Mgnt is totally replaced by Mn.	144296	152.85	156.00	3.15	45.40	4.29	34.70	3.23	0.51	0.14	0.06	0.23	0.21	0.06	0.02	0.01	2.73
1	161.43	162.43	IDB - Altered light green intrusive. Diabase dyke altered to chl-cc. Strong to moderate Hcl Rx. Fine grained with local coarse mx.	144297	156.00	162.00	6.00	43.20	1.04	39.80	2.38	1.43	0.25	0.08	0.05	0.12	0.06	0.02	0.01	0.05
				144299	162.00	167.75	5.75	50.40	3.76	31.80	3.38	2.62	1.03	0.21	0.21	0.19	0.07	0.02	0.02	0.16
1	164.90	166.30	IDB - Altered light green intrusive. Diabase dyke altered to chl-cc. Strong to moderate Hcl Rx. Fine grained with local coarse mx.																	
0	167.75	174.47	SLC - Chert rich interval with minor Mgnt beds 1mm to 5mm. Siderite is also present. Matrix is ext. Fine grained. Local Py-Mn replacement of Mgnt.	144300	167.75	171.00	3.25	63.20	1.83	22.70	1.91	0.72	0.25	0.10	0.10	0.23	0.06	0.02	0.01	2.38
1	170.47	171.03	IDB - Intrusive Highly altered in Chl	144301	171.00	174.47	3.47	51.40	0.35	31.30	2.02	0.40	0.01	0.04	0.01	0.08	0.07	0.02	0.01	1.17

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
			and carbonates.																		
0	174.47	180.26	IF-H - Iron formation with ext- fine-grained Mgnt int cm beds. Matrix composed of Chert with siderite. Intervals are highly brecciated.	144302	174.47	180.26	5.79	41.70	0.04	40.70	1.98	0.49	0.01	0.01	0.01	0.12	0.06	0.02	0.01	0.04	
0	180.26	193.80	SLC - Chert unit with minor beds of Mgnt < 1cm. Matrix is ext. Fine-grained with local replacement of Mgnt by Mn-Py. Beds composed of an alternance of Chert and Siderite.	144303	180.26	186.00	5.74	48.60	3.37	27.70	2.66	1.36	0.83	0.47	0.15	0.16	0.09	0.02	0.01	2.13	
1	183.00	183.60	IF-G - Local replacement of a magnetite bed by minesotatite and pyrite. Pyrite is fine to medium grained.																		
1	184.07	185.28	IDB - Intrusive Highly altered in Chl and carbonates. Diabase dyke.																		
				144305	186.00	192.00	6.00	53.20	0.16	28.90	2.31	0.40	0.01	0.02	0.01	0.09	0.14	0.02	0.01	0.92	
				144306	192.00	198.00	6.00	42.00	0.07	37.50	2.56	0.90	0.01	0.02	0.01	0.15	0.08	0.02	0.01	0.05	
0	193.80	197.09	IF-H - Iron formation with ext- fine-grained Mgnt int cm beds. Matrix composed of Chert with siderite. Intervals are highly brecciated.																		
0	197.09	201.60	SLC - Cherty iron formation composed of 80% chert matrix with cm magnetite beds. Mgnt and chert are ext. Fine grained. Magnetite shows brecciation.	144307	198.00	204.00	6.00	51.00	0.51	29.10	2.61	0.38	0.20	0.03	0.03	0.05	0.20	0.03	0.01	1.21	

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
1	199.95	200.60	IF-G - Replaced iron formation formation with chert and magnetite replaced by minnesotaite and pyrite.																		
0	201.60	213.90	SC - Chert unit composed of ext. Fine grained matrix alternating with silicified beds of mudstone. Unit is cut by several veinlets (<1cm) of green mica probably chlorite.	144308	210.00	213.90	3.90	56.50	0.43	27.00	2.03	0.25	0.01	0.05	0.03	0.04	0.14	0.03	0.01	1.60	
0	213.90	230.44	IF-F - Iron formation composed of beds of ext. Fine grained magnetite alternating with cherty beds. Most of the unit contains magnetite but mixed with different amount of silica, from 10% to 80% SiO2. Intervals of IF-H with chert and siderite are present in the unit. Local Pyrite but never >10%	144309 144310	213.90 219.00	219.00 225.00	5.10 6.00	44.50 43.60	0.11 0.13	48.30 49.20	1.42 1.31	0.47 0.50	0.01 0.01	0.02 0.01	0.02 0.01	0.09 0.07	0.03 0.03	0.04 0.02	0.01 0.01	0.08 0.13	
1	221.86	222.85	IF-H - Iron formation with chert and siderite. Mgnt is less present < 20%																		
				144312	225.00	231.00	6.00	45.50	0.61	44.60	1.61	0.73	0.08	0.06	0.04	0.10	0.04	0.03	0.01	0.09	
1	226.55	226.70	IDB - altered intrusive cutting the iron formation. Alteration of the selvedge is observed with Mgnt replaced by Py.																		
0	230.44	254.50	IF-H - Iron formation lean in magnetite with chert and siderite. Magnétite beds contain up to 50% chert. Beds of mudstone alternate with the IF.	144313 144314 144315 144316 144317	231.00 235.47 240.00 246.00 249.00	235.47 240.00 246.00 249.00 254.50	4.47 4.53 6.00 3.00 5.50	46.40 43.60 37.50 43.50 48.20	0.20 0.17 0.15 0.17 1.38	37.50 35.50 38.20 39.80 36.00	1.83 2.49 2.80 2.45 2.89	0.68 0.89 0.99 1.14 1.72	0.01 0.01 0.02 0.02 0.06	0.01 0.02 0.02 0.07 0.23	0.01 0.01 0.01 0.02 0.08	0.08 0.08 0.10 0.07 0.11	0.03 0.04 0.05 0.04 0.04	0.02 0.02 0.03 0.01 0.02	0.01 0.01 0.01 0.01 0.01	0.09 0.10 0.05 0.06 0.10	

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
1	252.45	253.60	IDD - Altered intrusive rock. Mostly composed of chlorite and carbonate. Light green in color.																		
0	254.50	270.00	SC - Chert unit alternating with beds of siderite and mudstone. Mudstone content increase with depth. Little magnetite in scarce beds of dark chert.	144318	254.50	258.00	3.50	39.50	2.97	33.50	3.80	2.46	0.87	0.14	0.17	0.19	0.08	0.04	0.01	0.51	
0	270.00	273.00	SC - chert unit alternating with beds of siderite ant mudstone.	104916	270.68	276.68	6.00	46.50	4.83	23.70	4.57	3.82	1.05	0.46	0.28	0.32	0.11	0.02	0.01	0.36	
0	273.00	281.18	IF-G - Chert unit alternating with beds of siderite and mudstone. Mudstone content increase with depth. Little magnetite in scarce beds of dark chert. Magnetite content around 10%.some magnetite bands have almost been replaced by siderite. Siderite is mostly fine grained, and is the most abundant iron mineral. Minnesotite is also a replacement mineral and also finegrained. Minnesotite is also seen in microfractures of siderite. Small amounts of pyrite and po are present																		
1	274.65	276.68	IDD - grey, medium grained, thin calcite veining with no prominent orientation, some cross cut eachother.	104917	276.68	281.18	4.50	38.70	0.65	38.30	3.05	1.19	0.01	0.03	0.04	0.10	0.10	0.01	0.01	0.14	
0	281.18	292.34	SC - hydrothermally altered and sometimes brecciated SC, rich in chert and mudstone,	104918	286.34	292.34	6.00	41.30	0.11	35.10	3.23	0.73	0.01	0.01	0.01	0.05	0.11	0.01	0.01	0.07	



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
0	292.34	320.70	of the small amount of bedding visible, most of it has been fractured and jointed. The brecciated clasts are from fine grained to about 15mm. And are angular to sub angular. Mild quartz veining present. The colour of the core is a tan-grey.	104919	292.34	297.30	4.96	43.60	0.11	43.70	1.80	0.91	0.01	0.01	0.01	0.08	0.05	0.01	0.01	0.13
			IF-F - A lot of the bedding is preserved in this section, however, there is so many faults that orientations don't mean much, there are also zones of intense shear fabric, with elongated quartz eyes (cherts) in a magnetite matrix. The eyes are about 1mm thick and upto 10mm long/ Those sections have a grey white marbled appearance. Often with sharp contacts. There is tan mudstone present, but less downhole, and it is predominantly chert and iron. Some highly fractured zones have increased pyrite (fg-mg) and there are wisps of jasper before the next unit. Pyrite is not seen as a dominant replacement mineral, and more a function of fractures and fluids.	104920	297.30	303.30	6.00	45.90	4.35	35.90	3.36	2.83	1.20	0.29	0.25	0.19	0.07	0.03	0.01	0.09
1	301.03	303.29	IDD - grey, medium grained, thin calcite veining with no prominent orientation, some cross cut eachother.	104921	303.30	309.00	5.70	44.10	0.08	51.40	1.17	0.57	0.01	0.01	0.01	0.15	0.04	0.02	0.01	0.06
				104922	309.00	315.00	6.00	46.80	0.05	49.10	1.27	0.59	0.01	0.01	0.01	0.14	0.05	0.01	0.01	0.15
				104923	315.00	320.70	5.70	46.40	0.07	47.50	1.37	0.58	0.01	0.01	0.01	0.11	0.05	0.01	0.01	0.34
0	320.70	333.60	IF-E - grades from alternating bands of magnetite and jasper, with a grey red appearance to a highly jointed and	104924	320.70	324.00	3.30	44.60	0.05	54.10	0.89	0.44	0.01	0.01	0.01	0.10	0.03	0.01	0.01	0.02
				104925	324.00	330.00	6.00	48.60	0.06	46.90	1.07	0.50	0.01	0.01	0.01	0.08	0.03	0.01	0.01	0.29
				104926	330.00	333.60	3.60	50.40	0.47	42.80	1.22	1.14	0.01	0.01	0.03	0.10	0.04	0.01	0.01	1.20

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %
0	333.60	342.00	fractured unit of chert and magnetite, some sulphides in the fractures. This unit may or may not be IF-E, for the most part it looks like IF-F however there is disseminated magnetite in the cherts and shear structures, The core is highly magnetic. The contact to basement is less iron rich and sharp. SM - grey to green interbedded sediments, fine to medium grained, mineral alignments present. Calcite veining,	104928	333.60	339.60	6.00	50.80	13.10	8.50	4.57	7.66	2.38	1.56	0.61	0.21	0.12	0.05	0.03	0.07

End of Lithology and Assays ;



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
10.00	12.00	2.00	0.00	0.00	1.80	0.00	0.65	0.00	0.00	0.00	0.00	0.00	very fractured and broken core- fragments of Granite and Diorite + IF
12.00	15.00	3.00	0.00	0.00	2.00	0.00	2.25	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
15.00	18.00	3.00	0.00	0.00	1.05	0.00	2.40	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
18.00	21.00	3.00	0.00	0.00	1.60	0.00	1.80	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core
21.00	24.00	3.00	0.00	0.00	1.35	0.00	1.70	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core
24.00	27.00	3.00	0.00	0.00	1.20	0.00	1.85	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
27.00	30.00	3.00	0.00	0.00	1.05	0.00	2.25	0.00	0.00	0.00	0.00	0.00	fractured and broken core
30.00	33.00	3.00	0.00	0.00	0.70	0.00	2.60	0.00	0.00	0.00	0.00	0.00	mechanic fractures
33.00	36.00	3.00	0.00	0.00	1.05	0.00	2.60	0.00	0.00	0.00	0.00	0.00	mechanic fractures
36.00	39.00	3.00	0.00	0.00	0.70	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured and broken core
39.00	42.00	3.00	0.00	0.00	1.25	0.00	2.35	0.00	0.00	0.00	0.00	0.00	fractured and broken core
42.00	45.00	3.00	0.00	0.00	1.30	0.00	2.45	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
45.00	48.00	3.00	0.00	0.00	1.65	0.00	2.35	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
48.00	51.00	3.00	0.00	0.00	1.90	0.00	2.15	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
51.00	54.00	3.00	0.00	0.00	1.05	0.00	2.60	0.00	0.00	0.00	0.00	0.00	fractured and broken core
54.00	57.00	3.00	0.00	0.00	0.60	0.00	2.50	0.00	0.00	0.00	0.00	0.00	fractured and broken core
57.00	60.00	3.00	0.00	0.00	0.35	0.00	2.90	0.00	0.00	0.00	0.00	0.00	mechanic fractures
60.00	63.00	3.00	0.00	0.00	0.95	0.00	2.40	0.00	0.00	0.00	0.00	0.00	fractured and broken core
63.00	66.00	3.00	0.00	0.00	0.80	0.00	2.55	0.00	0.00	0.00	0.00	0.00	fractured and broken core
66.00	69.00	3.00	0.00	0.00	0.80	0.00	1.65	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
69.00	72.00	3.00	0.00	0.00	2.10	0.00	2.05	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
72.00	75.00	3.00	0.00	0.00	1.70	0.00	2.40	0.00	0.00	0.00	0.00	0.00	very fractured and broken core

*Satellite database created from Rogue-**RadioHill DDH2011.accdb***

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
75.00	78.00	3.00	0.00	0.00	0.95	0.00	2.40	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
78.00	81.00	3.00	0.00	0.00	2.10	0.00	2.20	0.00	0.00	0.00	0.00	0.00	fractured to very broken core, mud at the end.
81.00	84.00	3.00	0.00	0.00	1.30	0.00	2.50	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
84.00	87.00	3.00	0.00	0.00	2.80	0.00	1.75	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core
87.00	90.00	3.00	0.00	0.00	2.40	0.00	1.85	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core- drop the box
90.00	93.00	3.00	0.00	0.00	1.10	0.00	2.25	0.00	0.00	0.00	0.00	0.00	fractured and broken core
93.00	96.00	3.00	0.00	0.00	1.25	0.00	2.40	0.00	0.00	0.00	0.00	0.00	fractured and broken core
96.00	99.00	3.00	0.00	0.00	1.25	0.00	2.45	0.00	0.00	0.00	0.00	0.00	fractured and broken core
99.00	102.00	3.00	0.00	0.00	0.40	0.00	2.65	0.00	0.00	0.00	0.00	0.00	mechanic fractures
102.00	105.00	3.00	0.00	0.00	0.65	0.00	2.60	0.00	0.00	0.00	0.00	0.00	mechanic fractures
105.00	108.00	3.00	0.00	0.00	0.18	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
108.00	111.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
111.00	114.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
114.00	117.00	3.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
117.00	120.00	3.00	0.00	0.00	0.32	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
120.00	123.00	3.00	0.00	0.00	0.42	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
123.00	126.00	3.00	0.00	0.00	0.04	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
126.00	129.00	3.00	0.00	0.00	0.32	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
129.00	132.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
132.00	135.00	3.00	0.00	0.00	0.26	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
135.00	138.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
138.00	141.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
141.00	144.00	3.00	0.00	0.00	0.12	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
144.00	147.00	3.00	0.00	0.00	0.15	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
147.00	150.00	3.00	0.00	0.00	0.14	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
150.00	153.00	3.00	0.00	0.00	0.18	0.00	3.00	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-**RadioHill DDH2011.accdb***

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	sacts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
153.00	156.00	3.00	0.00	0.00	0.26	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
156.00	159.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
159.00	162.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
162.00	165.00	3.00	0.00	0.00	0.06	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
165.00	168.00	3.00	0.00	0.00	0.12	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
168.00	171.00	3.00	0.00	0.00	0.24	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
171.00	174.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
174.00	177.00	3.00	0.00	0.00	0.07	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
177.00	180.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
180.00	183.00	3.00	0.00	0.00	0.35	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
183.00	186.00	3.00	0.00	0.00	0.17	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
186.00	189.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
189.00	192.00	3.00	0.00	0.00	0.26	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
192.00	195.00	3.00	0.00	0.00	0.17	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
195.00	198.00	3.00	0.00	0.00	0.25	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
198.00	201.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
201.00	204.00	3.00	0.00	0.00	0.34	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
204.00	207.00	3.00	0.00	0.00	0.96	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
207.00	210.00	3.00	0.00	0.00	1.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	Broken core along S0 plans
210.00	213.00	3.00	0.00	0.00	1.70	0.00	3.00	0.00	0.00	0.00	0.00	0.00	Broken core along S0 plans
213.00	216.00	3.00	0.00	0.00	0.70	0.00	3.00	0.00	0.00	0.00	0.00	0.00	Broken core along S0 plans
216.00	219.00	3.00	0.00	0.00	0.15	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
219.00	222.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	discontinuity - carina logged beginning - matthew logged from 270-EOH, there is missing geotechnical data.
270.00	273.00	3.00	0.00	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00	0.00	
273.00	276.00	3.00	0.00	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00	0.00	mostly mechanical breaks 90 to core
276.00	279.00	3.00	0.00	0.00	0.10	0.00	2.98	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-**RadioHill DDH2011.accdb***

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	alRecover	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%	%	%	%	%						
279.00	282.00	3.00	0.00	0.00	0.06	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
282.00	285.00	3.00	0.00	0.00	0.20	0.00	3.04	0.00	0.00	0.00	0.00	0.00	
285.00	288.00	3.00	0.00	0.00	0.17	0.00	3.02	0.00	0.00	0.00	0.00	0.00	
288.00	291.00	3.00	0.00	0.00	0.43	0.00	3.03	0.00	0.00	0.00	0.00	0.00	
291.00	294.00	3.00	0.00	0.00	0.08	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
294.00	297.00	3.00	0.00	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00	0.00	
297.00	300.00	3.00	0.00	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00	0.00	
300.00	303.00	3.00	0.00	0.00	0.57	0.00	3.00	0.00	0.00	0.00	0.00	0.00	some weathered fractures, where iff meets the idd, also idd has a series of breaks along cement planes mostly 90degree
303.00	306.00	3.00	0.00	0.00	0.09	0.00	2.87	0.00	0.00	0.00	0.00	0.00	the recovery I believe gets picked up three rods down
306.00	309.00	3.00	0.00	0.00	0.02	0.00	3.01	0.00	0.00	0.00	0.00	0.00	
309.00	312.00	3.00	0.00	0.00	0.05	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
312.00	315.00	3.00	0.00	0.00	0.02	0.00	3.15	0.00	0.00	0.00	0.00	0.00	this rod starts with core spin about 8cm, not included
315.00	318.00	3.00	0.00	0.00	0.16	0.00	2.97	0.00	0.00	0.00	0.00	0.00	
318.00	321.00	3.00	0.00	0.00	0.25	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
321.00	324.00	3.00	0.00	0.00	0.12	0.00	2.90	0.00	0.00	0.00	0.00	0.00	the recovery is all about 10cm off from now to EOH - I don't know why, the core except for 330-333 is in good condition, I think the bit might need changing
324.00	327.00	3.00	0.00	0.00	0.07	0.00	2.93	0.00	0.00	0.00	0.00	0.00	
327.00	330.00	3.00	0.00	0.00	0.03	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
330.00	333.00	3.00	0.00	0.00	0.68	0.00	2.80	0.00	0.00	0.00	0.00	0.00	rubble zones of large clasts no fine grinds, core spun, possibly dull bit, the zone is veined but the core seems fresh, possibly all mechanical

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcu</i>	<i>RQPces&lt;100</i>	<i>tal</i>	<i>Recove</i>	<i>Recovery</i>	<i>Fractures</i>	<i>sacts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
			%		%									
333.00	336.00	3.00	0.00	0.00	0.57	0.00	2.92	0.00	0.00	0.00	0.00	0.00	0.00	a series of 60 degree fractures near the contact with basement, and small cemented tectonic fault and a few fracture planes in the SM that have soft clay fill (1mm thick)
336.00	339.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	
339.00	342.00	3.00	0.00	0.00	0.08	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	EOH

End of RQD ; 95 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
18.15	23.20	Oxidized		

End of Alterations ; 1 record(s) printed.



*Satellite database created from Rogue-**RadioHill DDH2011.accdb***

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
10.00	17.70	IF-F			35	0	0	2	1	62	0
18.15	21.30	IF-G			30	0	0	8	0	62	0
22.70	25.35	IF-G			35	1	0	10	0	54	0
27.15	32.30	IF-F			40	0	0	2	0	58	0
32.30	50.65	IF-G			25	0	0	10	0	60	0
50.80	75.25	IF-G			30	0	0	14	1	55	0
76.30	84.60	IF-F			40	0	0	3	0	57	0
89.65	93.65	IF-F			30	0	0	2	0	68	0
93.65	99.00	IF-G			25	0	0	20	0	55	0
99.00	115.30	IF-F			30	0	0	4	0	66	0
120.60	170.75	IF-F			40	0	0	2	5	53	0
174.47	197.17	IF-H			30	0	0	0	40	30	0
213.90	230.44	IF-F			40	0	0	2	10	48	0
230.44	254.40	IF-H			10	0	0	1	30	60	0
273.00	281.18	IF-H			10	0	2	2	20	50	0
292.00	320.70	IF-F			40	0	1	3	1	55	0
320.70	333.60	IF-E			60	0	0	4	0	36	0

End of Mineralizations ; 17 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
12.00	40.00	S0	RICH Mgt + Mns bands
12.50	50.00	S0	rich Mgt band
14.50	40.00	S0	Mgt + Chert band
15.00	50.00	VQ	
15.30	50.00	S0	rich Mgt band
15.40	40.00	S0	Mgt band
18.25	45.00	VQ	
18.35	35.00	VQ	
19.00	50.00	S0	Mgt + Mns bands
20.80	80.00	S0	Mgt + Py bands
21.15	60.00	S0	massive Mgt band + oxidation
22.80	40.00	S0	rich Mgt band
23.10	50.00	VQ	
23.60	45.00	VQ	
24.10	40.00	S0	fractured plane
24.15	50.00	VQ	
24.20	40.00	VQ	
27.60	30.00	VQ	
29.00	45.00	VQ	
30.20	60.00	VQ	
30.40	40.00	VQ	
33.05	60.00	VQ	
33.40	4.00	VQ	veinlet + fractured plane
34.00	45.00	VQ	
35.80	75.00	VQ	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
36.60	45.00	VQ	
38.95	50.00	S0	Mgt band
39.15	55.00	S0	Mgt band
39.90	80.00	S0	Mgt band
42.60	70.00	VQ	qtz + Mns veinlet
43.50	55.00	VQ	qzt + Mgt veinlets
43.55	70.00	VQ	qtz + Mgt veinlets
46.70	45.00	VQ	
47.80	45.00	S0	Chert + lean Mgt bedding
50.00	40.00	S0	Mgt + Mns trace band
50.80	60.00	S0	Mgt + Mns + Chert bands
51.20	60.00	S0	lean Mgt + Chert bands
54.50	60.00	S0	Mgt + Mns band
57.05	70.00	S0	Mgt band
57.50	50.00	S0	Mgt + Mns band + Py
57.70	70.00	S0	Mgt + Mns band
57.80	60.00	VQ	
63.00	40.00	VQ	qtz + Mns veinlet
64.50	55.00	S0	Mgt + mns band
65.80	40.00	S0	Chert + lean Mgt + Mns bedding
66.00	49.00	S0	deformed Mgt band
68.80	50.00	S0	Mgt + Mns band- brecciated chert
69.80	55.00	S0	fractured plane- chert band
70.00	45.00	S0	fractured plane- Mgt + Mns band
71.80	30.00	S0	fractured plane- Py + Mns band

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
72.00	45.00	S0	fractured plane
73.50	65.00	S0	rich Mgt + Mns band
73.50	55.00	S0	fractured plane- chert band
75.70	50.00	VQ	
76.20	60.00	VQ	
76.30	40.00	S0	Chert + lean Mgt bedding
77.80	85.00	S0	Mgt + Chert band
80.00	70.00	S0	Mgt band
80.50	50.00	S0	fractured plane
81.40	75.00	VQ	qtz + Mns
84.00	25.00	S0	fractured plane- Mgt + Mns + Chert bands
85.00	60.00	S0	fractured plane
87.00	35.00	VQ	
89.00	15.00	Vcc	fracture + Ep + calcite
90.40	55.00	S0	Mgt band
92.50	30.00	S0	Mgt band
99.30	35.00	VQ	
99.50	40.00	VQ	
101.50	60.00	VQ	
102.15	40.00	S1	
102.50	30.00	VQ	
104.80	40.00	S0	Mgt + Mns band
106.00	35.00	S0	
110.00	20.00	S0	
115.30	85.00	Cnt	Upper contact between IF and Intrusive



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
120.60	20.00	Cnt	Lower contact between IF and intrusive
121.40	65.00	S0	
122.00	0.00	S0	
124.46	65.00	S0	
126.00	85.00	Cnt	Upper contact between IF and intrusive
130.00	55.00	S0	
133.00	50.00	S0	
139.00	0.00	S0	
145.50	35.00	S0	
147.50	20.00	S0	
152.26	20.00	S0	
160.00	45.00	S0	
164.50	40.00	S0	
173.00	60.00	S0	
182.00	55.00	S0	
194.00	55.00	S0	
215.00	70.00	S0	
247.00	45.00	S0	
251.00	55.00	S0	
261.00	35.00	S0	
274.65	45.00	Cnt	3 stepped contact, IFG/IDD/ - lower contact similar, 2 stepped
280.08	50.00	S0	IFG w mud
298.02	45.00	S1	of cherte in a magnetite matrix, the fabric aligns to more cohesive units, the upper bedding, around large chert c
298.40	40.00	VQ	derite and pyrite along the edges, has minnesotite and siderite disseminated in the vein, all minerals fine grained.
301.03	70.00	Cnt	iff/idd - the lower contact is sharp 90 and crosscuts the iron banding

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Structures:*

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
304.40	50.00	VQ	dominantly where the vein cuts the magnetite band), the magnetite band that is cut is medium grained magnetite
311.58	60.00	S1	jointing, bands displaced
315.30	60.00	S1	jointing, bands displaced
333.60	60.00	Cnt	iff/basement sediments
333.72	60.00	Flt	some mud clasts, near by a series of fractures, with soft mudfill, fill 1mm thick and sleek mica fracture surfaces.
337.13	135.00	Vcc	thin vein with halo
338.36	35.00	S1	fracture, thin mud fill
338.36	65.00	S0	foliation in sediment

End of Structures ; 108 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-04

<b>Easting:</b> 412870.40	<b>Northing:</b> 5334016.80	<b>Elevation:</b> 436.10
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 219.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> orbit garant
<b>Started:</b> 14-11-2011	<b>Finished:</b> 18-11-2011	<b>Logged By:</b> Matthew Halliday
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
12.00	173.10	0.00	-43.80	EZ Shot	Inactive
114.00	180.30	0.00	-44.60	EZ Shot	Active
216.00	194.60	0.00	-43.60	EZ Shot	Active

63.00	134.80	0.00	-43.90	EZ Shot	Inactive
165.00	193.80	0.00	-44.30	EZ Shot	Active

End of Deviations ; 5 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
0	0.00	4.80	OVB - aparently the casing goes to 3meter, but we did not recover the full 3-6m run	104883	4.33	9.60	5.27	45.80	0.37	36.70	1.52	0.37	0.01	0.02	0.01	0.05	0.08	0.01	0.01	0.01	0.17
0	4.80	9.97	SC - This is a white-light grey unit with some rusted section. There was some magnetite bands that have completely oxidized, there is a very small magnetic portion left. The chert has been bleached and fractured	104885	9.60	12.70	3.10	37.00	0.10	48.20	1.34	0.36	0.01	0.01	0.01	0.08	0.04	0.01	0.01	0.01	0.08
0	9.97	12.30	IF-F - fractured chert and banded iron with a small if-e section 50cm in length. Over all is a light medium with the IF-E being dark. Oxidation still present																		
1	10.48	10.96	IF-E - short interval of ife, black, 70% iron																		
0	12.30	39.79	SLC - alternating colour from light grey to creamy. There is stress deformation, but it is not brecciated, banding is from 45 to sub horizontal. Iron content is sporadic and is probably between 3-8%. There is mudstone in with the chert, a light tan colour, the bands are on average around a cm thick, altenation is random. It is oxidized upto 26m. Magnetite is deformed along with the unit, and may have some mudstone mixed in, but is relatively unaltered. There is no sulphide replacements, and is only altered near oxidation sites, fravcutres ...	104886	12.70	18.70	6.00	39.20	0.39	40.50	1.64	0.55	0.01	0.02	0.02	0.09	0.05	0.01	0.01	0.01	0.09
1	18.55	19.25	IDB - green to black, fine grained,																		

*Satellite database created from Rogue-**RadioHill** DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
			rusty contacts.																	
1	21.47	21.70	IDB - green to black, regular vertical fractures with oxidation																	
1	22.70	23.10	FZ - rusted fractures, weathered contact, mixed idb and chert																	
0	39.78	53.67	IF-G - a very low angle section, sub horizontal bedding, with mudstone, chert and iron.	104887	33.78	39.78	6.00	40.40	0.05	38.80	1.92	0.62	0.01	0.02	0.01	0.11	0.04	0.01	0.01	0.32
			The mudstone/iron units have the most sulphide replacement, and the sulphides are disseminated in the mudstone, the iron within the chert is also highly replaced. Fine to medium grained pyrite is the dominant replacement mineral, with some po and possibly some cpy. A few sections have siderite disseminated in the mudstone with pyrite, it is difficult to tell if this is replacing an iron band, the section appears non magnetic. The siderite is fine to medium grained, there is also hematite staining associated, a very distinct red smear. The iron content is difficult to ascertain because the chert sections are mostly very lean, but I would guess at least 15% and the pyrite is also 15-25% with silica making up the difference.	104888	39.78	45.00	5.22	44.60	1.29	37.70	1.65	0.13	0.01	0.09	0.05	0.02	0.12	0.01	0.01	8.91
				104889	45.00	49.10	4.10	31.10	2.59	46.70	1.96	0.16	0.02	0.19	0.10	0.01	0.14	0.01	0.01	13.30
				104890	49.10	53.67	4.57	56.60	0.97	29.70	1.36	0.23	0.01	0.07	0.05	0.07	0.08	0.01	0.01	5.33
0	53.67	84.10	SCL - this zone is alternating between banded iron, cherts, and mudstone, the appearance alternates between light gray and whites and creams. The banding ranges from about 45-75 degrees with some lower,	104891	53.67	57.69	4.02	64.00	0.16	23.70	1.23	0.27	0.01	0.02	0.01	0.07	0.07	0.01	0.01	0.42
				104893	57.69	61.77	4.08	52.70	0.41	31.10	1.59	0.36	0.01	0.04	0.01	0.07	0.08	0.01	0.01	0.70
				104894	61.77	68.50	6.73	40.20	1.68	40.30	2.10	0.91	0.17	0.15	0.08	0.14	0.06	0.01	0.01	0.12

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
			the iron contents varies, and there is some short intervals of lf-f though most of the are broken up by intrusives.some of the magnetite is being altered by pyrite (fg) although pyrite seemed to be localized to specific bands, and not prevalent in chert.																		
1	66.90	67.30	IDD - light green to darker green, gradational color and grain size.																		
1	67.63	68.28	IDD - light green to darker green, gradational color and grain size.																		
1	69.30	69.66	IDD - dark green, smooth fracture surface, micacious	104895	68.50	72.43	3.93	47.50	1.02	34.40	2.03	0.62	0.01	0.04	0.04	0.11	0.08	0.01	0.01	0.82	
				104896	72.43	76.80	4.37	45.00	0.10	40.30	1.83	0.53	0.01	0.03	0.01	0.12	0.06	0.01	0.01	0.94	
				104897	76.80	81.70	4.90	46.50	5.25	26.30	4.59	3.39	0.76	0.45	0.28	0.21	0.13	0.04	0.01	0.07	
1	77.48	79.88	FZ - oxidation at the contacts, intrusive with iff inside, @76.80 fracture, oxidation, then from 77.48-78.10 idb, 78.10-78.30 iff, 78.30-78.70 idb, 78.70-79 iff, 79-79.88 idb.																		
1	81.00	81.66	IDD - light to medium green, black weather soft contacts																		
				104898	81.70	87.70	6.00	55.20	0.36	29.20	2.12	0.31	0.01	0.03	0.01	0.06	0.13	0.01	0.01	3.64	
0	84.10	112.00	SC																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
			- light tans and light grey, alternating cherts and light tan mudstones. Bostly bedded between 45 degrees and 70 degrees. There are a few small sections of scl and one pyritized unit 30cm long. The scl is primaliy adjacent to instrusive.																	
1	104.55	104.90	SLC - same as above																	
1	104.90	105.20	FZ - idd - weathered, green with soft fill, brittle on contact with scl																	
				104899	105.36	111.36	6.00	41.90	0.14	35.40	3.39	0.81	0.01	0.02	0.01	0.05	0.12	0.01	0.01	0.05
1	111.36	112.00	SLC - same as chert unit	104900	111.36	117.00	5.64	39.80	0.12	43.50	2.52	0.75	0.01	0.01	0.01	0.09	0.05	0.01	0.01	0.09
0	112.00	143.55	IF-F - alternating bands of chert and iron and tan mudstone, dominant bedding and between 50-80. the iron bands range from mm-12mm, and have tension gashed downhole. There is more shear and jointing deformation associated with the mudstone, some small intervals of mild hydrothermal brecciation. At 122 there is 10cm of jasper. There is a low percent of pyrite and is localized with a few short beds and fractures. There are a few lean spots. The iron content is around 30% and then will lean for a few dozen cm.	104901	117.00	123.00	6.00	46.10	0.14	44.20	1.74	0.48	0.01	0.01	0.01	0.11	0.04	0.01	0.01	0.06
				104902	123.00	129.00	6.00	46.60	0.11	41.50	1.49	0.44	0.01	0.02	0.01	0.08	0.04	0.01	0.01	0.21
				104903	129.00	135.00	6.00	45.50	1.74	40.60	1.86	1.16	0.59	0.14	0.12	0.12	0.04	0.02	0.01	1.06
1	133.15	134.17	IDB - light green, micacious, fine to medium grained. Calcite fractures, sharp contacts.																	



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
0	143.55	150.13	SLC - alternating grey and white chertsm about 1cm thick at around 70 core angle, with a rusty fault zone of hematite replace iron at 147.93	104904	135.00	139.25	4.25	46.30	0.46	43.30	1.43	0.50	0.01	0.02	0.02	0.09	0.04	0.01	0.01	0.01	0.24
				104905	139.25	143.55	4.30	46.30	0.11	41.00	1.77	0.64	0.01	0.01	0.01	0.10	0.04	0.02	0.01	0.01	0.06
				104906	143.55	150.00	6.45	40.80	0.12	37.70	2.42	0.77	0.01	0.01	0.01	0.06	0.05	0.01	0.01	0.01	0.10
1	147.93	148.36	FZ - pourous well oxidized chert band, brittle fractures, with the lower contact not matching the bedding angle																		
0	150.13	153.00	IF-F - interbedded cherts, mudstone and magnetite, magnetite content is low, some oxidation, and rust replacement. Bands are about 1cm thick for iron, there bedding is between 45-70, and there is some mild faulting	104907	150.00	153.00	3.00	42.10	0.18	40.50	2.19	0.61	0.01	0.01	0.01	0.07	0.04	0.01	0.01	0.01	0.08
0	153.00	170.94	SLC - Highly bleached SLC, with small section of IF-F or increased mag, though over all percentage is quite low, intrusives, faulting present. There is at least 10% mudstone bands.	104909	153.00	159.00	6.00	41.80	0.37	36.10	2.65	0.51	0.01	0.03	0.02	0.07	0.08	0.01	0.01	0.01	0.28
1	162.57	163.45	IDB - coarse grain intrusive, slippery micastion fracture planes																		
1	165.72	166.00	IDB - coarse grain intrusive, slippery	104910	165.00	170.94	5.94	41.70	0.64	36.30	2.82	1.20	0.09	0.03	0.04	0.10	0.08	0.01	0.01	0.01	0.06

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
1	167.47	167.65	micastion fracture planes  FZ - well cemented, completely intact, small section of distorted IFF, 40degree contact upper, 55 degree contact lower, sharp, fracture plane within the unit, same orientation																		
0	170.94	176.75	IF-F - hydrothermally altered and sheard, some hydrothermal brecciation, small angular chert clast, 2mm-7mm diameter angular within a magnetite matrix, some mudston bands. The iron, is banded to chaotic, when banded there is tension gashed, and fracture displaces. The unit is a light grey to tan colour.	104911	170.94	176.75	5.81	40.50	0.33	44.90	1.48	0.61	0.03	0.06	0.02	0.09	0.05	0.01	0.01	0.12	
0	176.75	183.75	SCL - very bleached, creamy colour to the core, chloritized mustone makes up a small percentage and chert is dominant, A few whisps of magnetite are in the highly altered cherts, not banded. There is a lamphophyre dyke, and then a gradational end to the unit as chloritized mudstone increases dramatically.	104912	176.75	183.00	6.25	41.10	1.66	35.90	2.60	1.40	0.09	0.23	0.09	0.09	0.07	0.01	0.01	0.26	
1	183.00	183.45	VB - This is actually like a lamphophyre dike, it is magnetic and is sampled with the IF-F, it contains a calcite vein, and calcite in the matrix. phlogopite and biotite are present. And olivine. There is no mineral alignments, The matrix is fine grained. The micas have a	104913	183.00	186.85	3.85	33.60	2.73	39.30	4.08	3.58	0.09	0.17	0.40	0.18	0.15	0.02	0.01	0.76	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
0	183.75	186.85	IF-F different size distribution from <1mm to <3mm. The fresh surface is a charcoal grey. The calcite veining has longitudinal growth pattern. No apparent rubies or diamonds. - chloritized and unbanded near the dyke, grading into a banded chert/iron/mudstone near basement. Bands are 5mm-15mm thick for iron, and dipping approx 60. contact with basement is chloritized and low rpd, also abrupt, iron terminates.																		
0	186.85	219.00	SM - the basement starts as a ,medium/coarse grained sediment, and alternates with fine grained units, 1) The medium grained unit is silica rich, has medium grained disseminated pyrite, fracture surface often enriched in micas, slick, bedding is about 45, the finegrained unit is light to medium green and contains sections of (epidotization/sericitation, yellowy green) calcite veining is prevalent in both units, there appears to be some flow structure where part of the core will have mudston longitudinally and coarser sediments emplaced afterward, the coarser grained material works around the muds. Muds may have been a fall. There is a magnetic band at 202.23 I missed this during core inpection at camp. EOH	104915	186.85	192.85	6.00	48.10	13.40	7.27	5.68	7.48	4.32	0.80	0.65	0.53	0.12	0.04	0.02	0.28	

End of Lithology and Assays ;



*Satellite database created from Rogue-**RadioHill DDH2011.accdb***

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	sacts/Leng	Veins	ains/Leng	Angle	Description
			%	%	%	%	%						
4.80	6.00	1.20	0.00	0.00	0.33	0.00	1.20	0.00	0.00	0.00	0.00	0.00	oxidized
6.00	9.00	3.00	0.00	0.00	1.46	0.00	2.73	0.00	0.00	0.00	0.00	0.00	oxidized, very fractured where oxidation is highes
9.00	12.00	3.00	0.00	0.00	0.99	0.00	2.90	0.00	0.00	0.00	0.00	0.00	oxidized
12.00	15.00	3.00	0.00	0.00	0.60	0.00	2.94	0.00	0.00	0.00	0.00	0.00	mild oxidation
15.00	18.00	3.00	0.00	0.00	0.42	0.00	3.02	0.00	0.00	0.00	0.00	0.00	mild oxidation
18.00	21.00	3.00	0.00	0.00	0.51	0.00	2.90	0.00	0.00	0.00	0.00	0.00	mild oxidation, particularly on contact with intrusive
21.00	24.00	3.00	0.00	0.00	1.18	0.00	2.67	0.00	0.00	0.00	0.00	0.00	oxidized, intrusive vertical fractures regular intervals
24.00	27.00	3.00	0.00	0.00	0.40	0.00	2.96	0.00	0.00	0.00	0.00	0.00	mild oxidation
27.00	30.00	3.00	0.00	0.00	0.13	0.00	2.96	0.00	0.00	0.00	0.00	0.00	core is mostly intact, brittle mechanical failures
30.00	33.00	3.00	0.00	0.00	0.16	0.00	2.98	0.00	0.00	0.00	0.00	0.00	core is mostly intact, brittle mechanical failures
33.00	36.00	3.00	0.00	0.00	0.27	0.00	2.93	0.00	0.00	0.00	0.00	0.00	core is mostly intact, brittle mechanical failures
36.00	39.00	3.00	0.00	0.00	0.65	0.00	3.00	0.00	0.00	0.00	0.00	0.00	core is mostly intact, brittle mechanical failures
39.00	42.00	3.00	0.00	0.00	0.26	0.00	3.06	0.00	0.00	0.00	0.00	0.00	the sulphide replacement zone with mud matrix may have low angle zones of soft fill
42.00	45.00	3.00	0.00	0.00	0.62	0.00	2.98	0.00	0.00	0.00	0.00	0.00	silicified zones have brittle longitudinal fractures
45.00	48.00	3.00	0.00	0.00	0.37	0.00	2.98	0.00	0.00	0.00	0.00	0.00	sulphide replacement and siderite zones are porous,
48.00	51.00	3.00	0.00	0.00	0.45	0.00	3.02	0.00	0.00	0.00	0.00	0.00	sulphide replacement and siderite zones are porous, some crush
51.00	54.00	3.00	0.00	0.00	0.42	0.00	3.02	0.00	0.00	0.00	0.00	0.00	sulphide replacement and siderite zones are porous, chert has mechanical brittle failure
54.00	57.00	3.00	0.00	0.00	0.17	0.00	2.96	0.00	0.00	0.00	0.00	0.00	core is mostly intact, brittle mechanical failures

*Satellite database created from Rogue-**RadioHill DDH2011.accdb***

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	sacts/Leng	Veins	ains/Leng	Angle	Description
			%	%	%	%	%						
57.00	60.00	3.00	0.00	0.00	0.36	0.00	2.91	0.00	0.00	0.00	0.00	0.00	core is mostly intact, brittle mechanical failures, some longitudinal fractures
60.00	63.00	3.00	0.00	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00	0.00	
63.00	66.00	3.00	0.00	0.00	0.07	0.00	3.01	0.00	0.00	0.00	0.00	0.00	
66.00	69.00	3.00	0.00	0.00	0.54	0.00	2.95	0.00	0.00	0.00	0.00	0.00	second intrusive, successive brittle failures, with crush at bottom contact
69.00	72.00	3.00	0.00	0.00	0.13	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
72.00	75.00	3.00	0.00	0.00	0.37	0.00	2.92	0.00	0.00	0.00	0.00	0.00	
75.00	78.00	3.00	0.00	0.00	0.94	0.00	2.69	0.00	0.00	0.00	0.00	0.00	mudstone and intrusive
78.00	81.00	3.00	0.00	0.00	0.69	0.00	2.82	0.00	0.00	0.00	0.00	0.00	contacts at intrusive are soft, core spin and grind, intrusive mostly intact
81.00	84.00	3.00	0.00	0.00	0.36	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
84.00	87.00	3.00	0.00	0.00	0.17	0.00	3.00	0.00	0.00	0.00	0.00	0.00	core is mostly intact, brittle mechanical failures
87.00	90.00	3.00	0.00	0.00	0.19	0.00	3.00	0.00	0.00	0.00	0.00	0.00	core is mostly intact, brittle mechanical failures
90.00	93.00	3.00	0.00	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00	0.00	core is mostly intact, brittle mechanical failures
93.00	96.00	3.00	0.00	0.00	0.08	0.00	3.02	0.00	0.00	0.00	0.00	0.00	core is mostly intact, brittle mechanical failures
96.00	99.00	3.00	0.00	0.00	0.14	0.00	3.07	0.00	0.00	0.00	0.00	0.00	core is mostly intact, brittle mechanical failures, silphide zones softer
99.00	102.00	3.00	0.00	0.00	0.27	0.00	2.94	0.00	0.00	0.00	0.00	0.00	core is mostly intact, brittle mechanical failures
102.00	105.00	3.00	0.00	0.00	0.63	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
105.00	108.00	3.00	0.00	0.00	0.50	0.00	2.84	0.00	0.00	0.00	0.00	0.00	
108.00	111.00	3.00	0.00	0.00	0.15	0.00	2.94	0.00	0.00	0.00	0.00	0.00	
111.00	114.00	3.00	0.00	0.00	0.40	0.00	3.03	0.00	0.00	0.00	0.00	0.00	IFF starts
114.00	117.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
117.00	120.00	3.00	0.00	0.00	0.11	0.00	2.90	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%	%	%	%	%						
120.00	123.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
123.00	126.00	3.00	0.00	0.00	0.12	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
126.00	129.00	3.00	0.00	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00	0.00	
129.00	132.00	3.00	0.00	0.00	0.51	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
132.00	135.00	3.00	0.00	0.00	0.51	0.00	3.05	0.00	0.00	0.00	0.00	0.00	0.00 intrusive is soft rich in calcite, oxidation in some of the iron joints
135.00	138.00	3.00	0.00	0.00	0.25	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00 oxidation in some of the iron joints
138.00	141.00	3.00	0.00	0.00	0.25	0.00	3.08	0.00	0.00	0.00	0.00	0.00	
141.00	144.00	3.00	0.00	0.00	0.24	0.00	2.93	0.00	0.00	0.00	0.00	0.00	
144.00	147.00	3.00	0.00	0.00	0.07	0.00	2.98	0.00	0.00	0.00	0.00	0.00	
147.00	150.00	3.00	0.00	0.00	1.06	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00 mostly brittle fractures, 50cm oxidized iron zone, porous
150.00	153.00	3.00	0.00	0.00	0.95	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
153.00	156.00	3.00	0.00	0.00	1.75	0.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00 brittle fracture, rust present, core is in large chips 3-8cm long
156.00	159.00	3.00	0.00	0.00	0.47	0.00	2.74	0.00	0.00	0.00	0.00	0.00	
159.00	162.00	3.00	0.00	0.00	1.00	0.00	2.88	0.00	0.00	0.00	0.00	0.00	0.00 brittle, large chips
162.00	165.00	3.00	0.00	0.00	0.18	0.00	2.94	0.00	0.00	0.00	0.00	0.00	
165.00	168.00	3.00	0.00	0.00	0.23	0.00	2.95	0.00	0.00	0.00	0.00	0.00	
168.00	171.00	3.00	0.00	0.00	0.19	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
171.00	174.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
174.00	177.00	3.00	0.00	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00	0.00	
177.00	180.00	3.00	0.00	0.00	0.35	0.00	2.94	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	%ces>100	Calcu	RQP	%ces<100	tal	Recove	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%			%									
180.00	183.00	3.00	0.00	0.00	0.40	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	There was a block error near by, I don't know how the recovery is distributed, but this run ends at a ?lamphophere dyke, the core upto that point is white chert, with brittle fractures and good
183.00	186.00	3.00	0.00	0.00	1.33	0.00	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
186.00	189.00	3.00	0.00	0.00	0.98	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	contact between iron formation and sediments, have slippery micatious fracture surfaces
189.00	192.00	3.00	0.00	0.00	0.06	0.00	3.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	basementr
192.00	195.00	3.00	0.00	0.00	0.14	0.00	1.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	basement - sharp fracture @ 45-60
195.00	198.00	3.00	0.00	0.00	0.15	0.00	3.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	basement
198.00	201.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	basement
201.00	204.00	3.00	0.00	0.00	0.36	0.00	3.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	basement
204.00	207.00	3.00	0.00	0.00	0.06	0.00	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	basemet
207.00	210.00	3.00	0.00	0.00	0.07	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	basement
210.00	213.00	3.00	0.00	0.00	0.24	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	basement
213.00	216.00	3.00	0.00	0.00	0.18	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	basement
216.00	219.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	basement - EOH

End of RQD ; 72 record(s) printed.





*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
4.80	26.00	Oxidized		
147.00	167.00	mild oxidized		
148.00	148.50	Oxidized		

End of Alterations ; 3 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
4.33	9.97	sc			0	10	0	0	0	90	0
9.97	12.30	IF-F			40	1	0	0	0	60	0
12.30	39.78	SCL			5	0	0	0	0	90	0
39.78	53.67	IF-G			20	0	2	20	10	50	0
61.77	68.50	IF-F			20	0	2	2	2	70	0
72.43	81.76	IF-F			20	0	0	3	2	50	0
111.36	143.55	IF-F			35	0	0	2	2	60	0
150.13	153.00	IF-F			20	0	0	0	0	70	0
170.94	176.75	IF-F			30	0	0	0	0	60	0
183.75	186.85	IF-F			25	0	0	2	0	60	0

End of Mineralizations ; 10 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
16.15	20.00	S0	undulated chert bedding
18.55	50.00	Cnt	sc/ldb with a rusty contact, the contact is clear but rough
25.35	35.00	S0	bedding chert/ms
36.60	15.00	S0	bedding chert/ms
46.60	0.00	S0	sure this is a low angle bedding that is undulated because of the folding, and composition contrast of chert/ms/BIF
56.50	35.00	S0	bedding chert
66.56	45.00	S0	bedding chert/bif
66.90	55.00	Cnt	sc/ldb
76.60	45.00	S0	bedding chert/bif
81.00	60.00	Cnt	sc/ldb
86.50	40.00	S0	bedding chert
99.30	50.00	S0	bedding chert
102.90	55.00	S0	bedding chert/ms
114.10	65.00	S0	bedding, slightly block and disjointed, with tension gashes
119.55	150.00	S1	displacement plane faulting bedding. Bif
129.95	55.00	S0	bedding, bif-with mudstone, tension gashes in the iron
139.60	75.00	S0	bedding, tension gashes in the iron
143.68	40.00	S0	bedding, some bedding is slightly folded s-shaped
153.55	75.00	S0	bedding
162.45	70.00	Cnt	iff/ldb upper contact
163.45	60.00	Cnt	ldb/iff lower contact
163.67	50.00	S0	bedding
174.31	40.00	S1	shear fabric iff
183.04	50.00	Cnt	chert/ ?lampholite dyke?
183.75	60.00	S0	bedding (ms in chert) distorted

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Structures:*

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
186.85	65.00	Cnt	iff/sm basement
192.40	50.00	S1	ating between fine/ultrafine to medium grained, this is foliation in the medium grained interval, has a slatey texture
203.37	70.00	S0	either bedding or foliation in the fine grained section
208.80	40.00	S0	band of iron in the basement (3 in total over 22m)
212.23	40.00	S0	a band of iron in the basement
214.97	45.00	Vcc	calcite vein fine grained (there are calcite veins rangin from fine to almost coarse grained in the basement)

End of Structures ;            31 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-05

<b>Eastings:</b> 412709.80	<b>Northing:</b> 5334146.00	<b>Elevation:</b> 439.50
<b>AltEastings:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 312.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> Orbit Garant Drilling
<b>Started:</b> 15/08/11	<b>Finished:</b> 24/08/11	<b>Logged By:</b> K.Sarabia
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
18.00	202.40	0.00	-44.60		Active
100.00	185.30	0.00	-45.00		Active
200.00	222.00	0.00	-45.00		Inactive
310.00	194.00	0.00	-44.90		Active

50.00	157.40	0.00	-44.90		Inactive
150.00	203.00	0.00	-45.20		Active
250.00	196.60	0.00	-44.80		Active

End of Deviations ; 7 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	0.00	8.00	OVB - no recovery																		
0	8.00	18.20	IF-G - Magnetite + Chert bands, brecciated and ultra-fine grained texture, silicified core, Siderite + Minnesotaite present, Sulfides (Py, Ccp, Po) trace up to 10-15%. Hydrothermal brecciated core.	144149 144150 144151	8.00 12.00 15.00	12.00 15.00 21.00	4.00 3.00 6.00	60.20 66.70 50.90	0.80 0.63 5.33	28.90 23.50 29.30	1.94 1.46 3.09	0.39 0.36 0.29	0.05 0.04 0.04	0.26 0.20 0.13	0.02 0.02 0.23	0.14 0.19 0.13	0.11 0.12 0.13	0.01 0.01 0.02	0.01 0.01 0.02	2.07 2.73 5.61	
2	18.20	18.65	IDD - intermediate dike, chlorite alteration.																		
0	18.65	33.10	IF-G - Brecciated Hydrothermal and ultra-fine grained texture, silicified core, Siderite and Minnesotaite trace to 10%, moderate to strong presence of sulfides patches and filling fractures and bedding (Py, Ccp, Sp and Po) up to 15-20% in some located segments.	144152 144153 144154	21.00 27.00 33.00	27.00 33.00 36.15	6.00 6.00 3.15	62.70 51.40 -1.00	2.07 1.44 -1.00	22.90 31.50 -1.00	1.57 2.22 -1.00	0.28 0.49 -1.00	0.05 0.05 -1.00	0.21 0.27 -1.00	0.07 0.05 -1.00	0.15 0.16 -1.00	0.10 0.16 -1.00	0.01 0.01 -1.00	0.01 0.01 -1.00	4.92 3.69 -1.00	
2	33.10	33.55	IDD - Fine to very fine grained intermediate dike, low Chlorite alteration.																		
2	33.55	33.90	IF-F - Rich Magnetite + Chert banded core, Minnesotaite + Siderite trace up to 5%, sulfides trace, silicified and deformed banded core.																		
1	33.90	34.60	IDD - Intermediate dike, fine to very fine grained green core. Low to weak CaCO3 and Chlorite																		

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
			alteration.																	
2	34.60	34.95	IF-F - brecciated and fine to ultra-fine grained texture, moderate to strong Magnetism response, Siderite + Minnesotaite trace to 2%, Chlorite alteration.																	
1	34.95	36.15	IDD - intermediate dike, fine to very fine grained texture. Light green color.																	
0	36.15	59.85	IF-G - Brecciated and silicified core, rich Mgnetite + Chert + Minnesotaite bands, moderate to strong presence of sulfides filling fractures and bedding up to 25-30% in some intervals (Py, Po, Ccp trace to 2%), moderate chlorite alteration, fragments are mm'tric to cm'tric and sub-angular to angular, siderite is also present in fractured cherty bands. Moderate to strong magnetism in the Pyrrhotite zone + Minnesotaite. Band + Siderite are deformed and fragments are sub-angular.	144155 144157 144158 144159	36.15 42.00 48.00 54.00	42.00 48.00 54.00 60.00	5.85 6.00 6.00 6.00	51.10 41.90 49.80 37.50	1.23 3.25 1.68 1.56	31.10 36.60 32.00 40.20	2.29 2.71 2.37 2.90	0.85 0.70 0.47 0.70	0.06 0.08 0.04 0.04	0.13 0.19 0.09 0.08	0.04 0.10 0.07 0.05	0.12 0.25 0.08 0.13	0.15 0.16 0.11 0.14	0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01	2.30 5.62 3.67 2.88
1	59.85	62.44	IF-H - Brecciated Hydrothermal texture, Siderite + Chert >> Magnetite + Minnesotaite bedding. Sulfides trace in fractured planes, silicified core, Weak to none CaCO3 reaction, veinlets + qtz cross-cutting the unit.	144160	60.00	66.00	6.00	61.10	1.34	22.80	2.34	0.90	0.02	0.01	0.08	0.13	0.10	0.02	0.01	0.60

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
2	62.44	62.60	IDD - An intermediate intrusive rock.																		
1	62.60	67.30	IF-H - Brecciated and silicified core, Siderite + Chert >> Magnetite + Minnesotaite bands, irregular banding, low rusty surfaces, sulfides trace. Fault zone at 64m, extremely broken core (grind).	144161	66.00	69.00	3.00	52.50	0.70	28.20	2.55	0.32	0.01	0.01	0.03	0.06	0.17	0.01	0.01	0.88	
2	67.30	67.65	IF-G - Iron formation with rich Magnetite bands + Chert bands, moderate concentration of sulfides (Py) up to 15% filling the fractures and planes of weakness.																		
0	67.65	78.00	SLC - pale to dark grey Chert + Siderite + Minnesotaite trace up to 2-3%, low Magnetite bedding, deformation is observed in the banded core, micro-brecciated isolated zone.	144162 144164	69.00 75.00	75.00 78.00	6.00 3.00	56.40 51.90	0.26 0.64	26.30 29.00	2.13 2.40	0.63 0.71	0.01 0.01	0.03 0.03	0.01 0.03	0.17 0.16	0.09 0.10	0.01 0.01	0.01 0.01	0.20 0.38	
0	78.00	88.50	IF-G - Magnetite + Minnesotaite >> Chert + Siderite trace, strong to moderate magnetism, moderate sulfides presence (Po, Py) up to 15-20% in some fractures and broken planes, Py and Po are also observed // to the Magnetite bands. At the lower contact Chert >> than Magnetite + Minnesotaite bands. Brecciated texture. At the lower contact we have more Magnetite massive bands with less Chert and	144165 144166	78.00 84.00	84.00 88.80	6.00 4.80	59.30 55.90	0.62 1.91	24.90 29.10	2.09 2.56	0.65 0.60	0.05 0.14	0.12 0.31	0.02 0.12	0.12 0.09	0.10 0.13	0.02 0.01	0.01 0.01	0.39 2.54	

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**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
1	88.50	90.00	Minnesotaite but the sulfides still be present in the unit. Moderate HCl response in veinlets at the bottom.  IDD - diorite dike, with fine to medium grained texture, at the upper contact the grain is more fine than the middle part and his color is dark gray-greenish at the top and light gray-green at the rest of the core. Veinlets with calcite are cross-cutting the core, moderate HCl response in the groundmass.	144167	88.80	91.10	2.30	56.80	14.20	7.87	3.25	3.86	4.41	1.70	0.64	0.29	0.08	0.02	0.02	0.21
2	90.00	90.10	IF-G - Strong Magnetism, Rich and massive Magnetite bands with strong sulphides fine disseminated in fractures and patches.																	
1	90.10	91.10	IDD - diorite dike, moderate to strong HCl response in fractures, groundmass and veinlets. Pale gray-green color, fine to medium grained texture.																	
0	91.10	105.00	IF-G - Strong to moderate Magnetism, brecciated and fine to ultra-fine grained texture, fragments are composed of dark gray chert, mm'tric to cm'tric and angular to sub-angular fragments in a ramdon orientation. Some magnetite rich band are deformed, Minnesotaite up to 20% and Siderite trace to 3%, sulfides are also present up to 5-20% in local zones near to	144168 144169 144171	91.10 96.00 102.00	96.00 102.00 105.00	4.90 6.00 3.00	55.90 59.50 64.20	1.52 1.02 1.21	28.60 26.60 24.60	2.48 2.36 1.91	0.86 0.48 0.73	0.10 0.10 0.13	0.23 0.22 0.33	0.09 0.06 0.04	0.15 0.08 0.13	0.11 0.14 0.09	0.01 0.01 0.01	0.01 0.01 0.01	1.11 0.82 1.18

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %
0	105.00	108.00	fractures and veinlets, silicified core. Low to weak HCl response in fractured planes and fractures, rusty is observe in a little amount. IF-H - Siderite + chert >> Magnetite bands at the upper contact, sulfides trace to 4% (Po, Py), micro-fractures filled with Minnesotaite trace to 3-4% and Siderite. At the lower contact Magnetite +Chert > Siderite bands.	144172	105.00	108.00	3.00	71.00	0.48	18.20	1.40	0.34	0.01	0.02	0.01	0.04	0.06	0.01	0.01	0.99
0	108.00	112.05	IF-G - iron formation with strong presence of sulfides filling fractures and fine disseminated in veinlets and fractures planes, Minnesotaite + Magnetite >> chert + siderite layers, some bedding is observed in the Siderite + Magnetite + Chert section.	144173	108.00	114.00	6.00	44.00	3.85	34.00	2.40	0.30	0.07	0.16	0.14	0.10	0.15	0.01	0.01	5.73
1	112.05	113.55	IF-H - banded and silicified core, Siderite + Chert + magnetite bedding, strong Siderite concentration at the top and bottom of this unit.																	
0	113.55	117.55	IF-G - Minnesotaite + Magnetite >> Chert bands, strong sulfides fine disseminated and filling fractures, broken planes and veinltes. Strong to moderate magnetism, weak to moderate HCl response in planes of weakness and veinlets.	144174 144175	114.00 117.00	117.00 123.00	3.00 6.00	49.10 56.60	1.71 1.73	30.10 27.30	2.58 2.18	0.30 0.42	0.02 0.04	0.11 0.11	0.07 0.07	0.04 0.06	0.19 0.11	0.02 0.01	0.01 0.01	2.41 2.61
1	117.55	119.40	IF-H - Siderite rich + Chert >>																	

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>		
								%	%	%	%	%	%	%	%	%	%	%	%	%	%	
1	119.40	120.40	Magnetite + Minnesotaite + chert bands, sulfides trace and low rusty, bedding is observed in the mm'tric Chert + Siderite bands.  IF-F - Minessotaite + rich Magnetite bands > Chert bedding + Siderite trace, sulfides trace, moderate to low CaCO3 presence in broken planes and veinlets. Strong to moderate magnetism.																			
1	120.40	121.05	IF-G - iron formation with strong presence of sulfides (Py) in a plane of weakness and fractures, Minnesotaite trace up to 10%.																			
1	121.05	121.80	SLC - Deformed and banded core with Siderite + Chert bands > Magnetite or Minnesotaite bands.																			
0	121.80	125.80	IF-F - strong Magnetite + Minessotaite layer, sulfides trace, silicified core, some bedding have been deformed.	144176	123.00	129.00	6.00	55.90	0.91	26.80	2.36	1.27	0.02	0.06	0.03	0.12	0.09	0.02	0.01	0.21		
1	125.80	126.35	FZ - Shear Zone in the iron formation : Minnesotaite + magnetite > Chert + Siderite bands, sulfides up to 5-8% in the fractured and sheared planes. This Fault zone is localized in the iron formation rich in																			

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**Lithology and Assays:**

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								%	%	%	%	%	%	%	%	%	%	%	%	%
0	126.35	130.60	Minnesotaite + Magnetite Chert bands. IF-H - moderate to weak rich Magnetite bedding, strong to moderate Siderite + Chert bands + Minnesotaite trace to 3-5%, Siderite is present in bedding + fractures.	144177	129.00	132.00	3.00	64.00	1.08	22.30	1.79	0.57	0.03	0.10	0.04	0.08	0.06	0.02	0.01	0.29
0	130.60	137.30	IF-G - Rich Magnetite + Minnesotaite > chert + Siderite bands, sulfides up to 20% (Po, Py and Ccp trace) in some fractures and filling veinlets and patches in broken planes.	144178	132.00	137.30	5.30	61.70	1.39	23.50	2.09	0.82	0.02	0.08	0.07	0.08	0.10	0.02	0.01	2.03
0	137.30	148.50	IF-H - rich Chert + Siderite bands, Minnesotaite and moderate rich Magnetite layers are also observe at the upper and middle section of this interval, variation of magnetism: moderate at the top and weak to the bottom, sulfides trace to less than 3-4% (Py).	144179 144180 144181	137.30 141.00 147.00	141.00 147.00 153.00	3.70 6.00 6.00	59.40 50.70 40.30	0.80 0.52 0.97	24.40 30.10 35.10	2.22 2.40 2.94	0.57 0.58 1.00	0.02 0.02 0.25	0.14 0.03 0.03	0.03 0.02 0.05	0.05 0.06 0.07	0.11 0.10 0.13	0.02 0.01 0.01	0.01 0.01 0.01	0.29 0.25 0.03
2	148.50	148.85	IDD - intermediate fine grained dike, the foliation is observed at the upper contact.																	
0	148.85	163.15	IF-H - Siderite + Chert bands > rich Magnetite bands, sulfides trace up to 3-4%, Py present in fractured planes and Po in a isolated band , Minnesotaite trace to 3-5%., deformation present in the banded core, micr-fault cross-cutting the bedding. Siderite + Chert >> rich Magnetite + Minnesotaite, fine to ultra-fine grained texture, micro-brecciated texture with	144182 144183	153.00 159.00	159.00 165.00	6.00 6.00	38.50 48.60	0.40 0.38	37.90 32.00	2.66 2.24	0.73 0.44	0.02 0.01	0.04 0.03	0.02 0.02	0.04 0.03	0.14 0.14	0.01 0.01	0.01 0.01	0.14 0.17



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								%	%	%	%	%	%	%	%	%	%	%	%	%	
1	163.15	164.40	mm'tric to cm'tric sub-angular cherty fragments in some layers.  FZ - Shear Zone, foliation is present in the Minnesotaite bands, deformation is observed in the Siderite + Chert banded core.																		
0	164.40	168.75	IF-H - Siderite + Chert > Rich Magnetite + Minnesotaite bedding, sulfides trace up to 4-5% (Py) in a broken plane.	144185 144186	165.00 168.00	168.00 171.00	3.00 3.00	51.90 43.00	0.12 0.98	29.80 34.70	2.18 2.56	0.44 0.48	0.02 0.01	0.02 0.02	0.01 0.04	0.02 0.05	0.14 0.15	0.02 0.01	0.01 0.01	0.03 0.31	
2	168.75	169.15	IF-G - moderate to strong magnetism, sulfides filling the fractures in the Mns + Mag zone (Po, Py and Ccp trace).																		
0	169.15	174.70	IF-H - strong to moderate Siderite bands > Chert > rich Magnetite + minnesotaite trace up to 3%, weak HCl response and moderate in some fractured planes, brecciated texture, mm'tric to cm'tric Mag bedding at the lower contact, sulfides trace	144187 144188	171.00 174.00	174.00 177.00	3.00 3.00	38.40 50.90	0.07 1.04	37.50 31.40	2.98 2.33	0.59 0.80	0.02 0.01	0.01 0.02	0.01 0.04	0.02 0.19	0.19 0.13	0.01 0.01	0.01 0.01	0.03 0.50	
1	174.70	177.00	IF-G - Brecciated and fine to ultra-fine grained core, Po + Py up to 10% fine disseminated and filling the fractures and some isolated veinlets.																		
0	177.00	184.00	IF-H - Siderite + Chert and lean Mag bands, sulfides trace up to less than 5% (Po >	144189 144190	177.00 183.00	183.00 189.00	6.00 6.00	44.30 46.30	0.16 3.28	33.90 29.00	2.69 3.18	0.56 2.02	0.01 0.67	0.03 0.45	0.01 0.15	0.04 0.11	0.14 0.11	0.01 0.01	0.01 0.01	0.22 0.11	

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Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
			Py), siderite is more concentrated at the upper contact and in the middle part of this interval. We observe cm'tric to mm'tric Chert angular to sub-angular fragments.																	
1	184.00	184.60	IDD - intermediate fine to medium grained dike- Dioritic core, medium green. Weak presence of veinlets + calcite, low HCl response in the groundmass.																	
0	184.60	187.45	IF-H - mm'tric to cm'tric Siderite bands > Chert >> Magnetite + Minnesotaite bands, deformation is present in some layers, Magnetite band are lean to moderate Magnetic, sulfides trace to 2-3% (Po).																	
1	187.45	188.20	IF-F - ultra-fine to fine grained Massive Magnetite + Minnesotaite minor band and Chert minor bands.																	
1	188.20	188.90	IDD - intermediate fine to medium grained core, medium green, veinlets with little of calcite.																	
0	188.90	192.80	IF-F - at the upper contact we observe ab intense magnetism, Mass Magnetite + minnesotaite bands >> Siderite + Chert, veinlet + calcite at the bottom.	144191	189.00	195.00	6.00	43.30	0.80	35.40	2.84	1.14	0.03	0.10	0.04	0.05	0.14	0.01	0.01	0.07
1	192.80	195.10	IF-H - brecciated and sheared banded core, Siderite> Chert >>	144193	195.00	198.00	3.00	55.90	0.18	31.70	2.22	0.49	0.01	0.05	0.01	0.01	0.11	0.01	0.01	1.50

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								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	195.10	223.50	Magnetite + Minnesotaite trace to 3-4%, sulfides trace, moderate to strong silicification.																		
			IF-G	144194	198.00	204.00	6.00	48.90	0.27	43.10	3.37	0.63	0.03	0.10	0.01	0.03	0.17	0.01	0.01	0.50	
			- Massive Magnetite >> Chert +	144195	204.00	207.00	3.00	45.50	0.22	44.70	3.30	0.56	0.03	0.09	0.01	0.04	0.15	0.01	0.01	4.06	
			Minnesotaite >>> Siderite + Chert bands,	144196	207.00	210.00	3.00	63.60	0.04	31.50	2.64	0.54	0.01	0.05	0.01	0.02	0.10	0.01	0.01	0.06	
			silicified banded core, strong to moderate	144197	210.00	216.00	6.00	53.00	0.19	38.00	3.33	0.75	0.01	0.07	0.01	0.03	0.14	0.01	0.01	2.34	
			sulfides presences up to 35-40% in	144198	216.00	222.00	6.00	54.40	0.28	37.10	2.85	1.02	0.02	0.09	0.02	0.09	0.09	0.01	0.01	0.07	
			localized sections (Py, Po), Py is present	144200	222.00	228.00	6.00	58.10	3.00	24.20	3.70	2.05	0.57	0.15	0.19	0.11	0.15	0.02	0.01	2.70	
			in cubes fine disseminated in the cherty																		
			bedding, Po and Py are filling fractures,																		
			veinlets and semi-massive at 205, 211																		
			and 213 meters, weak to none HCl																		
			response in veinlets + fractured planes.																		
2	223.50	223.95	IDD																		
			- Fine to medium grained																		
			intermediate dike, moderate																		
			to weak HCl response in																		
			the matrix + veinlets +																		
			Calcite, sheared core at the																		
			lower contact, chlorite +																		
			CaCO3 alteration.																		
0	223.95	227.10	IF-G																		
			- Rich Mag + Chert + Minnesotaite bedding																		
			with strong presence of sulfide (Po, Py)																		
			filling fractures, fine disseminated in some																		
			bands and also semi-massive in isolated																		
			sections, fractured Chert core down after																		
			the strong mineralization, weak to none																		
			HCl response, Siderite trace.																		
1	227.10	227.95	IDD																		
			- Fine to medium grained																		
			intermediate core, veinlets +																		
			calcite, pale to medium green																		
			color.																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	227.95	229.45	IF-G - Rich Magnetite + Po trace to up to 5-8%, Minnesotaite // to the Magnetite bands, Chert with fractures filled with Minnesotaite + Siderite trace to 2%, strong to moderate magnetism, sulfides fine disseminated and filling fractures.	144201	228.00	234.00	6.00	53.70	1.10	38.30	2.54	1.33	0.01	0.09	0.06	0.14	0.07	0.01	0.01	0.01	0.36
2	229.45	229.90	IDD - dark green color, fine grained core with mm'tric plagioclase crystals, veinlets + calcite, moderate chlorite alteration.																		
0	229.90	244.45	IF-G - Massive to Rich Magnetite >> Chert > Minnesotaite bands, siderite trace to 3%. From the top to the bottom: weak to moderate and strong HCL response in broken planes, strong presence of sulfides (Po, Py) up to 8-10%.	144202 144203	234.00 240.00	240.00 246.00	6.00 6.00	56.70 50.60	0.06 0.03	38.90 37.30	1.96 1.72	0.68 0.67	0.01 0.01	0.05 0.02	0.01 0.01	0.14 0.12	0.04 0.03	0.01 0.02	0.01 0.01	0.01 0.01	0.09 0.03
1	244.45	246.60	IF-H - Siderite + Chert > Magnetite bands, moderate to weak Magnetism, sulfides trace, brecciated fine to ultra-fine grained core.	144204	246.00	252.00	6.00	46.50	0.01	41.80	2.65	1.02	0.01	0.02	0.01	0.06	0.05	0.01	0.01	0.01	0.08
0	246.60	262.30	IF-G - Massive to rich Magnetite + minnesotaite >> Chert + Siderite bands, Siderite trace to 3-4%, sulfides up to 25-30% in localized in brecciated Hydrothermal core or in fractures and // to Magnetite bedding, chert with fractures and veinlets filled with Mns, Po + Py fone disseminated in veins,	144205 144206	252.00 258.00	258.00 264.00	6.00 6.00	54.20 60.90	0.16 1.09	34.70 22.00	2.77 4.69	0.28 1.20	0.01 0.12	0.07 0.21	0.01 0.40	0.05 0.14	0.12 0.10	0.01 0.02	0.01 0.01	0.01 0.01	2.93 4.08

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
1	262.30	263.35	veinlets and fractures, Py cubes disseminated in the Chert band. Mylonite texture is observed in some intervals at the top of this unit.  IDD - Mafic fine to medium grained core with porphyric Plagioclase, very fractured core at the upper and lower contact. Dark green color, strong to moderate Chlorite alteration, Moderate to weak HCl response.																		
0	263.35	267.65	IF-G - rich Magnetite + Minnesotaite > Chert bands, deformed banded core, Hydrothermal texture with strong Sulfides concentration (Po, Py) trace to semi-massive in the brecciated hydrothermal texture in the chert layer.	144207 144208	264.00 267.00	267.00 273.00	3.00 6.00	46.80 47.00	1.44 0.07	35.50 32.10	2.49 2.83	0.10 0.44	0.03 0.01	0.03 0.02	0.05 0.01	0.03 0.15	0.16 0.13	0.01 0.01	0.01 0.01	9.47 0.03	
0	267.65	276.00	IF-H - well banded core with Siderite + chert > lean Magnetite bands, Sulfides trace up to 3% (Py), silicified core.	144209	273.00	276.00	3.00	40.50	0.10	40.00	2.20	0.76	0.01	0.02	0.01	0.16	0.05	0.01	0.01	0.18	
0	276.00	279.00	IF-F - rich to massive Magnetite >> Chert bedding, Siderite trace up to 2-3%, well to deformed bedding in some layers, ultra-fine to fine texture, brecciated to banded core, Siderite is filling some bands or veinlets and Minnesotaite is filling some fractures in the matrix.	144210	276.00	279.00	3.00	44.30	0.03	41.00	1.96	0.61	0.01	0.02	0.01	0.09	0.04	0.01	0.01	0.13	
0	279.00	283.00	IF-H - Siderite + Chert >> rich to lean Magnetite bands, mm'tric to cm'tric bands with some	144211	279.00	283.40	4.40	55.30	0.45	29.30	2.60	0.88	0.04	0.15	0.04	0.11	0.08	0.01	0.01	0.65	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	283.00	300.05	different orientation, sulfides trace up to 2% and at the lower contact mineralization increase up to 4% near to the shear Zone. IF-F - Massive to rich Magnetite >> Chert + Jasper bands > Siderite bands, veinlets filled with calcite cross-cutting the bedding, strong moderate HCl response in fractures and veinlets, sulfies trace up to 4-5%, Py cubes and fine disseminated filling fractures. At the lower contact we observe Jasper + Magnetite + Chert bedding, strong magnetism.	144212 144213 144214 144215	283.40 288.00 294.00 300.00	288.00 294.00 300.00 303.00	4.60 6.00 6.00 3.00	48.00 43.90 41.90 46.60	1.03 0.23 2.34 2.09	43.30 49.00 43.10 41.70	1.84 1.78 3.02 2.45	1.77 0.60 1.64 1.76	0.06 0.02 0.70 0.72	0.02 0.02 0.04 0.05	0.07 0.07 0.22 0.12	0.10 0.07 0.12 0.12	0.05 0.05 0.08 0.05	0.01 0.01 0.03 0.02	0.01 0.01 0.01 0.01	0.22 0.15 0.12 0.09	
2	300.05	300.50	IDD - fine to medium grained intermediate dike, strong to moderate HCl response, veinlets + calcite cross-cutting the groundmass, medium to light green.																		
0	300.50	303.60	IF-F - Massive to rich Magnetite >> Chert bands, Minnesotaite is filling some fractures + silica and Siderite trace, moderate veinlets presence filled with calcite, banded and silicified core. At the lower contact we observe an increase of sulfides but they are in a small section.	144216	303.00	306.00	3.00	47.20	10.30	17.00	5.63	6.52	0.91	0.74	0.58	0.18	0.16	0.05	0.03	0.47	
1	303.60	305.65	IDD - fine to medium grained intermediate dike, medium to light green, strong HCl response in fractures, veinlets, broken planes and groundmass.																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
0	305.65	312.00	SM - light to green apple color, chert bands + fine to very fine grained sediments (volcanic?), strong HCl response in the matrix, veinlets and broken planes, stockwork of veinlets + calcite.																		

End of Lithology and Assays ;





*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	%ces>100	Calcu	RQP	%ces<100	talReco	Recovery	Fractures	sacts/Leng	Veins	ains/Leng	Angle	Description
			%			%								
8.00	9.00	1.00	0.00	0.00	0.83	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	broken core
9.00	12.00	3.00	0.00	0.00	2.20	0.00	1.20	0.00	0.00	0.00	0.00	0.00	0.00	very broken core, 5 feet ground
12.00	15.00	3.00	0.00	0.00	1.80	0.00	2.25	0.00	0.00	0.00	0.00	0.00	0.00	very broken and fractured core
15.00	18.00	3.00	0.00	0.00	1.35	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
18.00	21.00	3.00	0.00	0.00	2.20	0.00	1.55	0.00	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core, grinded interval
21.00	24.00	3.00	0.00	0.00	1.55	0.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
24.00	27.00	3.00	0.00	0.00	0.90	0.00	2.25	0.00	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
27.00	30.00	3.00	0.00	0.00	1.75	0.00	2.50	0.00	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
30.00	33.00	3.00	0.00	0.00	1.35	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	very broken core
33.00	36.00	3.00	0.00	0.00	1.15	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
36.00	39.00	3.00	0.00	0.00	1.25	0.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00	very broken core
39.00	42.00	3.00	0.00	0.00	1.00	0.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00	very broken core
42.00	45.00	3.00	0.00	0.00	2.05	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
45.00	48.00	3.00	0.00	0.00	0.85	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
48.00	51.00	3.00	0.00	0.00	1.80	0.00	2.35	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
51.00	54.00	3.00	0.00	0.00	0.95	0.00	2.65	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
54.00	57.00	3.00	0.00	0.00	0.95	0.00	2.35	0.00	0.00	0.00	0.00	0.00	0.00	broken core
57.00	60.00	3.00	0.00	0.00	1.25	0.00	2.65	0.00	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
60.00	63.00	3.00	0.00	0.00	1.55	0.00	2.35	0.00	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
63.00	66.00	3.00	0.00	0.00	1.60	0.00	1.95	0.00	0.00	0.00	0.00	0.00	0.00	extremely broken core-grinded section
66.00	69.00	3.00	0.00	0.00	1.50	0.00	2.35	0.00	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
69.00	72.00	3.00	0.00	0.00	0.90	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
72.00	75.00	3.00	0.00	0.00	1.00	0.00	2.65	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
75.00	78.00	3.00	0.00	0.00	1.50	0.00	2.60	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
78.00	81.00	3.00	0.00	0.00	0.95	0.00	2.65	0.00	0.00	0.00	0.00	0.00	fractured core
81.00	84.00	3.00	0.00	0.00	0.50	0.00	2.60	0.00	0.00	0.00	0.00	0.00	mechanic fractures
84.00	87.00	3.00	0.00	0.00	0.95	0.00	2.45	0.00	0.00	0.00	0.00	0.00	mechanic fractures
87.00	90.00	3.00	0.00	0.00	0.70	0.00	2.75	0.00	0.00	0.00	0.00	0.00	fractured core
90.00	93.00	3.00	0.00	0.00	0.90	0.00	2.80	0.00	0.00	0.00	0.00	0.00	very fractured core
93.00	96.00	3.00	0.00	0.00	1.10	0.00	2.75	0.00	0.00	0.00	0.00	0.00	very fractured core
96.00	99.00	3.00	0.00	0.00	1.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	fractured and broken core
99.00	102.00	3.00	0.00	0.00	0.70	0.00	2.75	0.00	0.00	0.00	0.00	0.00	fractured and broken core
102.00	105.00	3.00	0.00	0.00	0.80	0.00	2.70	0.00	0.00	0.00	0.00	0.00	very fractured and brken core
105.00	108.00	3.00	0.00	0.00	0.95	0.00	2.60	0.00	0.00	0.00	0.00	0.00	fractured and broken core
108.00	111.00	3.00	0.00	0.00	1.60	0.00	2.30	0.00	0.00	0.00	0.00	0.00	very broken and fractured core
111.00	114.00	3.00	0.00	0.00	1.15	0.00	2.60	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
114.00	117.00	3.00	0.00	0.00	1.30	0.00	2.20	0.00	0.00	0.00	0.00	0.00	several mechanic fractures
117.00	120.00	3.00	0.00	0.00	2.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core
120.00	123.00	3.00	0.00	0.00	1.90	0.00	2.60	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core
123.00	126.00	3.00	0.00	0.00	1.10	0.00	2.45	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
126.00	129.00	3.00	0.00	0.00	0.60	0.00	2.55	0.00	0.00	0.00	0.00	0.00	fractured and broken core
129.00	132.00	3.00	0.00	0.00	1.15	0.00	2.60	0.00	0.00	0.00	0.00	0.00	fractured and broken core
132.00	135.00	3.00	0.00	0.00	0.70	0.00	2.55	0.00	0.00	0.00	0.00	0.00	fractured and broken core
135.00	138.00	3.00	0.00	0.00	1.00	0.00	2.85	0.00	0.00	0.00	0.00	0.00	fractured and broken core
138.00	141.00	3.00	0.00	0.00	0.80	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured and very broken core
141.00	144.00	3.00	0.00	0.00	0.90	0.00	2.65	0.00	0.00	0.00	0.00	0.00	fractured and broken core
144.00	147.00	3.00	0.00	0.00	0.45	0.00	2.85	0.00	0.00	0.00	0.00	0.00	mechanical fractures

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	sacts/Leng	Veins	ains/Leng	Angle	Description
			%	%	%	%	%						
147.00	150.00	3.00	0.00	0.00	1.25	0.00	2.80	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
150.00	153.00	3.00	0.00	0.00	0.60	0.00	2.85	0.00	0.00	0.00	0.00	0.00	mechanic fractures
153.00	156.00	3.00	0.00	0.00	0.60	0.00	2.70	0.00	0.00	0.00	0.00	0.00	mechanic fractures
156.00	159.00	3.00	0.00	0.00	0.40	0.00	2.70	0.00	0.00	0.00	0.00	0.00	mechanic fractures
159.00	162.00	3.00	0.00	0.00	0.40	0.00	2.90	0.00	0.00	0.00	0.00	0.00	mechanic fractures
162.00	165.00	3.00	0.00	0.00	0.80	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured and broken core
165.00	168.00	3.00	0.00	0.00	0.60	0.00	2.85	0.00	0.00	0.00	0.00	0.00	mechanic fractures
168.00	171.00	3.00	0.00	0.00	0.95	0.00	2.55	0.00	0.00	0.00	0.00	0.00	fractured and broken core
171.00	174.00	3.00	0.00	0.00	0.60	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured and broken core
174.00	177.00	3.00	0.00	0.00	0.50	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
177.00	180.00	3.00	0.00	0.00	0.50	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured and broken core
180.00	183.00	3.00	0.00	0.00	0.55	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
183.00	186.00	3.00	0.00	0.00	0.40	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured core
186.00	189.00	3.00	0.00	0.00	0.40	0.00	2.80	0.00	0.00	0.00	0.00	0.00	fractured and broken core
189.00	192.00	3.00	0.00	0.00	0.60	0.00	2.65	0.00	0.00	0.00	0.00	0.00	mechanic fractures
192.00	195.00	3.00	0.00	0.00	0.65	0.00	2.75	0.00	0.00	0.00	0.00	0.00	fractured and broken core
195.00	198.00	3.00	0.00	0.00	0.55	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured and broken core
198.00	201.00	3.00	0.00	0.00	0.75	0.00	2.85	0.00	0.00	0.00	0.00	0.00	fractured and broken core
201.00	204.00	3.00	0.00	0.00	0.50	0.00	2.80	0.00	0.00	0.00	0.00	0.00	mechanic fractures
204.00	207.00	3.00	0.00	0.00	0.70	0.00	2.75	0.00	0.00	0.00	0.00	0.00	fractured and broken core
207.00	210.00	3.00	0.00	0.00	0.50	0.00	2.80	0.00	0.00	0.00	0.00	0.00	mechanic fractures
210.00	213.00	3.00	0.00	0.00	0.40	0.00	2.80	0.00	0.00	0.00	0.00	0.00	mechanic fractures
213.00	216.00	3.00	0.00	0.00	0.45	0.00	2.80	0.00	0.00	0.00	0.00	0.00	mechanic fractures
216.00	219.00	3.00	0.00	0.00	0.65	0.00	2.75	0.00	0.00	0.00	0.00	0.00	fractured and broken core
219.00	222.00	3.00	0.00	0.00	0.50	0.00	2.90	0.00	0.00	0.00	0.00	0.00	mechanic fractures
222.00	225.00	3.00	0.00	0.00	0.75	0.00	2.80	0.00	0.00	0.00	0.00	0.00	fractured and broken core
225.00	228.00	3.00	0.00	0.00	0.40	0.00	2.75	0.00	0.00	0.00	0.00	0.00	fractured and broken core

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**RQD:**

From	To	length	%ces>100	Calcu	RQP	%ces<100	tal	Recove	Recovery	Fractures	sacts/Leng	Veins	ains/Leng	Angle	Description
			%			%									
228.00	231.00	3.00	0.00	0.00	0.60	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured core and broken core
231.00	234.00	3.00	0.00	0.00	0.50	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
234.00	237.00	3.00	0.00	0.00	0.40	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
237.00	240.00	3.00	0.00	0.00	0.30	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
240.00	243.00	3.00	0.00	0.00	0.35	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
243.00	246.00	3.00	0.00	0.00	0.30	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
246.00	249.00	3.00	0.00	0.00	0.80	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
249.00	252.00	3.00	0.00	0.00	0.35	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
252.00	255.00	3.00	0.00	0.00	0.40	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
255.00	258.00	3.00	0.00	0.00	0.45	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
258.00	261.00	3.00	0.00	0.00	1.90	0.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	extremely fractured and broken core
261.00	264.00	3.00	0.00	0.00	1.65	0.00	2.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
264.00	267.00	3.00	0.00	0.00	0.70	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
267.00	270.00	3.00	0.00	0.00	1.80	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	very fractured and broken core
270.00	273.00	3.00	0.00	0.00	1.90	0.00	2.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	very fractured and broken core.
273.00	276.00	3.00	0.00	0.00	0.50	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
276.00	279.00	3.00	0.00	0.00	1.00	0.00	2.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
279.00	282.00	3.00	0.00	0.00	0.40	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
282.00	285.00	3.00	0.00	0.00	1.00	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
285.00	288.00	3.00	0.00	0.00	0.90	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
288.00	291.00	3.00	0.00	0.00	0.30	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
291.00	294.00	3.00	0.00	0.00	0.80	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures
294.00	297.00	3.00	0.00	0.00	0.80	0.00	2.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
297.00	300.00	3.00	0.00	0.00	0.70	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
300.00	303.00	3.00	0.00	0.00	0.50	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	mechanic fractures mechanic fractures

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcu</i>	<i>RQPces&lt;100</i>	<i>tal</i>	<i>Recove</i>	<i>Recovery</i>	<i>Fractures</i>	<i>sacts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
			<i>%</i>		<i>%</i>									
303.00	306.00	3.00	0.00	0.00	0.80	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
306.00	309.00	3.00	0.00	0.00	0.80	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core
309.00	312.00	3.00	0.00	0.00	0.75	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	fractured and broken core

End of RQD ; 102 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
8.00	18.20	IF-G			30	0	10	20	1	39	0
18.65	33.10	IF-G			25	0	12	25	1	37	0
33.55	33.90	IF-F			20	0	0	0	2	78	0
34.60	34.65	IF-F			25	0	0	0	1	74	0
36.15	59.85	IF-G			20	0	8	20	3	49	0
59.85	62.44	IF-H			10	0	0	2	20	68	0
62.60	67.30	IF-H			12	0	0	2	16	70	0
67.30	67.65	IF-G			10	0	0	12	1	73	0
67.65	78.00	SLC			17	0	0	1	2	80	0
78.00	88.50	IF-G			20	0	7	17	1	65	0
90.00	90.10	IF-G			35	0	0	15	0	50	0
91.10	105.00	IF-G			25	0	8	15	2	50	0
105.00	108.00	IF-H			15	0	0	2	25	58	0
108.00	112.05	IF-G			30	0	5	20	1	44	0
112.05	113.55	IF-H			15	0	0	1	25	59	0
113.55	117.55	IF-G			20	0	15	20	0	45	0
117.55	119.40	IF-H			15	0	0	1	20	64	0
119.40	120.40	IF-F			35	0	0	3	2	60	0
120.40	121.05	IF-G			10	0	10	20	0	60	0
121.80	125.80	IF-F			25	0	0	2	1	72	0
126.35	130.60	IF-F			13	0	0	2	25	60	0
130.60	137.30	IF-G			35	0	5	15	2	43	0
137.30	148.50	IF-H			15	0	1	3	25	56	0
148.85	163.15	IF-H			10	0	1	4	25	60	0
164.40	168.75	IF-H			10	0	0	4	21	60	0

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
168.75	169.15	IF-G			25	0	5	15	5	50	0
169.15	174.70	IF-H			25	0	1	2	35	37	0
174.70	177.00	IF-G			20	0	6	3	10	61	0
177.00	184.00	IF-H			10	0	1	2	20	67	0
184.60	187.45	IF-H			15	0	0	1	30	54	0
187.45	188.20	IF-F			44	0	0	0	1	55	0
188.90	192.80	IF-F			30	0	0	1	3	66	0
192.80	195.10	IF-H			15	0	1	2	45	37	0
195.10	123.50	IF-G			40	0	9	25	1	15	0
223.95	227.10	IF-G			15	0	20	9	1	55	0
227.95	229.45	IF-G			25	0	8	2	1	64	0
229.90	244.45	IF-G			35	0	12	8	2	43	0
244.45	246.60	IF-H			15	0	1	2	30	52	0
246.60	262.30	IF-G			30	0	15	25	0	30	0
263.35	267.65	IF-G			15	0	12	18	20	35	0
267.65	276.00	IF-H			10	0	1	1	45	43	0
276.00	279.00	IF-F			40	0	0	1	3	56	0
279.00	283.00	IF-H			15	0	0	2	25	58	0
283.00	300.05	IF-F			45	1	0	3	1	50	0

End of Mineralizations ; 44 record(s) printed.





*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
6.20	45.00	S0	Magnetite bedding
11.05	55.00	S0	Siderite + chert + Mag band
13.50	60.00	S0	Mag + chert bands
21.00	20.00	S0	deformed band
21.30	30.00	S0	deformed band
27.20	30.00	S0	deformed band + chert + Siderite
35.50	60.00	VQ	
38.00	20.00	S0	Magnetite deformed band
41.00	30.00	S0	Minnesotaite + sulfides fine disseminated band
47.80	35.00	S0	sulfide band
47.80	35.00	S0	deformed chert + Minnesotaite + sulfides band
49.00	35.00	S0	Magnetite + minnesotaite band
50.70	55.00	S0	Siderite + chert band
53.85	25.00	VQ	veins + Qz and Siderite, Ccp trace
57.50	50.00	S0	Siderite band
60.00	40.00	S0	Siderite + Chert mm'tric bedding
60.20	45.00	S0	Siderite + chert bands
63.00	60.00	S0	Chert + siderite ands
65.80	45.00	S0	chert + mag + Mns bands
66.10	50.00	S0	
69.15	30.00	S0	Chert + Siderite + Mag
71.60	35.00	S0	
74.70	60.00	VQ	veinlets + Qz
76.50	45.00	S0	Mag + Chert bands
77.80	30.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
77.95	20.00	S0	
78.20	45.00	S0	Sulfides bands
81.25	50.00	S0	Mag band
81.35	40.00	S0	Po bands
84.50	50.00	S0	Po bands
87.30	30.00	S0	sulfides band
88.40	50.00	Vcc	
88.60	40.00	Vcc	
90.20	40.00	Vcc	
91.00	60.00	Cnt	contact: Magnetite band and a brecciated zone
95.60	30.00	S0	fractures with sulfides (Po)
96.15	35.00	S0	Magnetite + Minnesotaite band
102.05	45.00	VQ	veinlets + Qz
104.50	60.00	S0	
104.60	55.00	S0	Po + Mns + Mag band
104.80	65.00	S0	Mag band
107.50	20.00	S0	fractured plane
108.00	40.00	S0	Mns + mag band
111.30	50.00	S0	sulfides bedding
111.80	60.00	S0	siderite + chert band
112.00	45.00	S0	
112.20	50.00	S0	
117.05	50.00	Vcc	
117.30	40.00	S0	sulfides band
117.80	60.00	S0	sulfides band

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
118.00	50.00	S0	mag band
119.70	50.00	S0	
120.00	40.00	S0	mag + siderite band
120.35	40.00	Cnt	IF-F and IF-G
120.50	35.00	S0	fractured planes
122.80	35.00	S0	
123.00	50.00	S0	
123.10	60.00	S0	
123.40	50.00	S0	
124.50	0.00	VQ	
126.90	70.00	S0	Mns + Po + Mag band
127.00	60.00	Vcc	
127.40	50.00	S0	
127.60	40.00	S0	
127.60	70.00	Vcc	2-3 mm'tric veinlet + calcite
127.90	40.00	S0	
128.25	65.00	S0	Mns + Mag band
128.55	60.00	S0	Magnetite band
129.00	40.00	S0	brecciated texture observed + bedding
129.20	50.00	S0	
130.00	60.00	S0	Py + Mns band
130.50	45.00	S0	Po band + Mag
133.50	65.00	S0	bedding Mns + Mag
135.00	30.00	S0	fractured plane + sulfides
136.10	60.00	S0	Mag band

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
136.10	50.00	S0	Mns + Mag band
136.55	55.00	S0	
136.85	40.00	S0	Mag band
137.35	45.00	S0	Mns + Po + Mag band
137.50	40.00	S0	fractured plane // bedding + sulfides
137.60	60.00	S0	Band with Chert micro-fractured
138.00	55.00	S0	Mag band
141.00	60.00	S0	Mag + Po band
141.10	70.00	S0	Mns + Mag + Chert micro-bedding
141.60	65.00	S0	Mns + Mag band
144.00	55.00	S0	chert band
144.30	30.00	VQ	
145.00	85.00	S0	Siderite + chert bands
145.70	40.00	S0	
145.80	70.00	S0	
148.55	65.00	S0	
148.70	70.00	S0	
148.75	60.00	S1	
148.85	70.00	Cnt	sharp contact : IDD and IF-H
150.15	70.00	S0	Siderite + Chert band
151.20	65.00	S0	Siderite + Chert band
153.05	60.00	S0	
153.15	80.00	S0	Po + Minnesotaite + Mag band
153.20	60.00	S0	Siderite + Chert band
154.80	55.00	S0	Minnesotaite + chert band

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
155.20	60.00	S0	Sid + Chert bedding
156.00	60.00	S0	Mns + Mag band
156.10	55.00	S0	Chert band
158.50	60.00	S0	Chert + lean Mag band
158.70	60.00	S0	Chert + lean Mag band
158.95	60.00	S0	
160.30	60.00	S0	lean Mag + Chert band
161.00	75.00	S0	lean Mag + Chert bedding
161.20	70.00	S0	
161.70	65.00	S0	lean Mag + Chert band
162.50	65.00	S0	Py band
162.65	55.00	S0	Chert + Siderite bedding
163.05	70.00	S0	Siderite band
163.50	70.00	S0	Chert and massive Mag band
163.60	60.00	S0	Mns + Chert + lean Mag band
165.00	55.00	S0	Chert band
165.10	70.00	S0	
165.55	50.00	S0	Siderite + Chert + lean Mag bands
166.20	35.00	S0	Fractured plane- Shear Zone
166.40	60.00	S0	Sid + Chert + lean Mag bands
167.80	60.00	S0	Magnetite lean band
168.15	60.00	S0	Magnetite lean band
168.40	60.00	S0	Magnetite lean + Siderite bands
169.15	60.00	S0	Mns + Siderite fractured plane // to bedding
171.00	60.00	S0	Siderite + Chert + Mag lean bands

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
171.30	55.00	S0	
174.20	50.00	S0	Siderite + Mag band
175.80	60.00	S0	Po band
176.70	75.00	S0	Magnetite + chert bedding
177.50	70.00	S0	Mag + Chert bedding
180.30	85.00	S0	Siderite + Chert bedding
182.70	70.00	S0	Side + Chert band
183.60	65.00	S0	Mag rich band
184.20	55.00	Vcc	calcite veinlet
185.70	60.00	S0	Chert + sid + mns band
185.85	65.00	S0	Chert + Sid band
186.40	80.00	S0	Chert + Mag lean band
187.45	45.00	S0	fractured plane, Mass Mag band
188.20	85.00	Cnt	IDD contact
189.00	75.00	S0	rich Mag + chert band
192.80	55.00	S1	lineation of fragments and mns crystals
193.60	75.00	S0	Side + Chert bedding
195.40	65.00	S0	mm'tric Sid + Chert bands
196.20	60.00	S0	Po band
199.00	50.00	S0	Mass Mag band
199.40	50.00	S0	Mass Mag band
199.50	60.00	S0	Po band
201.00	60.00	S0	Mass Mag + Po band
202.20	70.00	S0	Mns + chert + Mass Mag bands
203.95	80.00	S0	Mass Mag band

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
204.30	60.00	S0	Mns + Mag band
208.00	80.00	S0	Mass Mag band
210.10	75.00	S0	rich Mag + chert band
210.50	70.00	Vcc	
211.00	70.00	S0	rich Mag + chert band
213.50	80.00	S0	Mns + Mag band
216.80	85.00	S0	Mag band
217.00	50.00	Vcc	calc + Mns
217.20	70.00	S0	Mag band
218.80	70.00	S0	chert + Mag band
219.00	75.00	S0	Mag + Chert bands
220.00	70.00	S0	Mass Mag band
221.80	50.00	Vcc	calc
222.15	75.00	S0	Rich Mag band
222.30	50.00	S0	fractures + Siderite
222.60	85.00	S0	Po + Mag band
222.75	65.00	S0	Mag band
223.50	55.00	Vcc	Calcite 3 mm'tric veinlet
223.55	35.00	Vcc	Calcite veinlet
223.95	85.00	Cnt	IDD and IF-G contact
224.00	70.00	S0	Mag band
225.00	60.00	VQ	siderite + silica veinlets
226.30	80.00	S0	Mag band
228.05	65.00	VQ	
229.45	50.00	Cnt	IF-g and IDb contact



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
229.90	85.00	Cnt	ldb and IF-G contact
230.70	30.00	S0	Mag band
230.80	60.00	S0	Mag band
231.40	60.00	VQ	
232.50	55.00	S0	Mag band
232.70	50.00	VQ	
233.85	70.00	S0	Mag + mns band
234.60	45.00	S0	Mag band
240.20	40.00	S0	Mag band
243.00	35.00	S0	Mag + Siderite + Chert bedding
243.70	40.00	S0	siderite + Mag + chert bedding
244.55	40.00	S0	
244.75	45.00	S0	
246.60	70.00	Cnt	IF-H and IF-G contact
249.00	30.00	VQ	
249.20	35.00	VQ	
250.80	50.00	S0	Mag + Chert bedding
252.00	35.00	Vcc	Fracture filled with Siderite + silica
254.55	60.00	S0	Mag + Chert bands
255.95	40.00	S0	Po + Mag bands
256.10	60.00	S0	Mag bands
257.80	40.00	S0	Po + Py + Mag bands
258.10	45.00	S0	fractures + lean Magnetite
263.90	60.00	S0	Mag bands
264.40	40.00	VQ	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
264.80	80.00	S0	
264.90	60.00	S0	
265.70	70.00	S0	Band + Py semi-massive
266.35	70.00	S0	Po + Py band
266.55	40.00	S0	fractured plane +Mns + Po + Py
267.15	40.00	S0	Siderite + Chert bedding
267.80	50.00	S0	Sid + Chert bedding
269.80	60.00	S0	Siderite + Chert bedding
270.40	65.00	S0	Sid + Chert bedding
272.60	50.00	S0	Sid + Chert bedding
273.10	60.00	S0	Sid + Chert bedding
274.50	70.00	S0	Sid + Chert bedding
274.90	70.00	S0	Sid + Chert bedding
275.50	60.00	S0	Sid + Mag bands
276.00	50.00	S0	Siderite + Mag band
276.85	60.00	S0	
276.90	70.00	S0	
277.60	60.00	S0	
278.50	50.00	S0	
279.00	80.00	S0	
279.25	65.00	S0	
279.50	65.00	S0	
280.00	60.00	S0	
281.35	60.00	S0	
282.20	50.00	S0	Mag band

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
283.00	60.00	Cnt	sample angle as the foliation
283.40	50.00	S0	Py band
283.50	70.00	S0	Mass Mag band
283.80	75.00	S0	
284.00	70.00	S0	
285.20	35.00	Vcc	veinlets + calcite
285.40	70.00	Vcc	
285.60	60.00	S0	Mag band
287.30	60.00	Vcc	
288.65	70.00	S0	Mag band
288.80	60.00	S0	Mns + Chert band
289.10	80.00	S0	Mag band
289.60	70.00	S0	rich Mag band
289.75	20.00	Vcc	
291.15	70.00	S0	
291.20	85.00	S0	rich Mag band
291.70	75.00	S0	
292.10	75.00	S0	
292.30	80.00	S0	
292.75	75.00	S0	
294.00	70.00	S0	
295.00	80.00	S0	
296.00	80.00	S0	
296.50	80.00	S0	Jasper + Mag bands
297.30	80.00	S0	Side + Mag bands

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
298.20	60.00	S0	Mag bands
300.05	85.00	Cnt	IDD contact
300.15	50.00	Vcc	
301.00	70.00	S0	mag band
301.90	70.00	S0	
302.50	75.00	S0	
303.00	70.00	S0	
304.00	70.00	Vcc	
305.00	80.00	Vcc	
305.65	50.00	S0	Chert band
306.90	70.00	Vcc	
307.00	80.00	S0	Chert band
309.00	50.00	Vcc	
310.00	60.00	S0	volcanic bedding
311.00	60.00	S0	volcanic bedding

End of Structures ;            265 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-06

<b>Easting:</b> 412549.20	<b>Northing:</b> 5334180.00	<b>Elevation:</b> 439.00
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 294.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> Orbit Garant
<b>Started:</b> 05/11/2011	<b>Finished:</b> 11/11/2011	<b>Logged By:</b> Matthew Halliday
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
15.00	211.50	0.00	-43.80	EZ Shot	Inactive
99.00	222.20	0.00	-43.30	EZ Shot	Inactive
201.00	198.90	0.00	-43.90	EZ Shot	Active

51.00	196.00	0.00	-43.80	EZ Shot	Active
150.00	190.70	0.00	-43.90	EZ Shot	Active
252.00	190.60	0.00	-44.00	EZ Shot	Active

End of Deviations ; 6 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	0.00	3.75	OVB																		
0	3.75	24.43	IF-F	104816	3.90	9.00	5.10	64.10	0.91	26.40	2.27	0.65	0.02	0.19	0.03	0.13	0.12	0.02	0.01	1.25	
				104817	9.00	15.00	6.00	69.60	0.70	23.40	1.86	0.42	0.02	0.17	0.03	0.07	0.10	0.02	0.01	1.30	
				104818	15.00	21.00	6.00	52.70	1.34	33.30	2.77	1.88	0.06	0.35	0.06	0.15	0.12	0.02	0.01	0.84	
				104819	21.00	24.48	3.48	51.10	1.41	32.90	2.70	1.38	0.03	0.36	0.05	0.10	0.09	0.01	0.01	1.13	
0	24.43	34.35	SAG	104820	24.48	30.00	5.52	63.00	11.50	9.54	1.17	1.10	0.10	3.59	0.42	0.11	0.07	0.01	0.01	4.57	
1	25.90	26.35	FZ - SAG fault gouge, soft black grind, wet																		
1	28.20	28.40	FZ - chert and mudstone, with high sulphide concentration																		
1	30.06	30.15	IDD - sharp contact, fine grained																		
1	32.67	32.80	IDD - deformed in sag																		
1	33.08	33.16	IDD - fine grained veined																		
1	33.31	33.44	IDD - sharp upper contact fine grained																		
0	34.35	37.94	TBX																		
1	35.08	35.46	FZ - with in the TBX, there is a fault gouge zone of predominately SAG																		
0	37.94	60.31	HBX - most of the banding is deformed. Highly																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
			silicified. Alternating layers of chert, mudstone, and silicified material. Often porous. Many fractures contain soft cement, particularly on contacts with chloritized mudstone, many sections have been faulted and cemented through more than one event. Very rich in sulphides, increasing with depth toward the next sag unit. Pyrite is the dominant sulphide, pyrite is fine to coarse grained. Some sections are massive up to 10cm. Pyrite is prevalent in veining and around clasts, however is also seen disseminated and as a replacement mineral. Pyrite is probably greater than 10% of the unit, with very high grades downhole. There is a small section of lean chert, and trace amounts of siderite present. There is also some iridescent staining on some of the cement fill planes, indicating possibly cpy, but is hard to find other than the tarnish. There is also po, but very little compared to pyrite.																		
1	46.72	47.50	SLC - thin section of slc upright banding, intercalated mudstone and chert, disseminated pyrite. Iron bands being 1/2 cm to 3cm																		
1	55.04	55.14	SLC - magnetite, possibly associated with faulting																		
1	58.00	58.45	IDD - fine grained, brittle fractures, rpd low, disseminated pyrite																		
0	60.31	69.17	SAG - black sag, very graphitic, contains bands and nodules of pyrite, and some banded																		



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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
			nodules of pyrite. Fracture fill in many spots very soft and greasy, some chlorite and other weathered material. Some of the nodules have void space in the direction of foliation. Pyrite are fine to coarse grained, nodule seem to be agglomerated of fine to coarse grained pyrites.																		
1	66.90	67.10	IDD - fine grained, whitish green, sharp contact																		
1	67.50	67.65	FZ - brecciated chert clasts in SAG																		
0	69.17	75.00	HBX - interlayered sag and and brecciated cherts, foliation present, chert clasts aligned with foliation of sag. Cherty zones have moderate sulphides, sag zones have massive sulphides fine to medium grained pyrite																		
0	75.00	84.50	TBX - mixed chert and mudstone, most banding is gone, mudstone is the matrix, sections of mudstone can be upto 40cm, equal amounts of each, fine grained pyrite present disseminated in ms, and along clast boundaries. <5%																		
1	81.10	82.63	IDB - light green, fine grained, calcite present, faulted by thin low angle vein,																		
0	82.63	87.70	SC - banded chert and mudstone, mudstone layers average between 4-15cm, cherts	104821	84.00	87.70	3.70	58.00	3.32	21.70	2.30	4.17	0.07	0.23	0.12	0.11	0.15	0.02	0.01	1.57	

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
0	87.70	96.09	less evenly distributes, between 1cm-20cm. Some of the chert is brittle fractures, SLC - banded chert and mudstone, 5-10% banded iron, bands are altered. Fine grained pyrite, po, sid present, associated with bands and mudstone. Bands are about 10cm in width.	104822 104823	87.70 91.65	91.65 93.58	3.95 1.93	55.40 43.40	2.33 2.21	27.00 37.30	2.27 2.84	2.51 2.24	0.17 0.21	0.48 0.57	0.10 0.08	0.13 0.21	0.09 0.07	0.01 0.01	0.01 0.01	0.79 0.67	
1	92.65	93.58	IF-F - banded chert and mudstone, 20% banded iron, bands are altered. Fine grained pyrite, po, sid present, associated with bands and mudstone. Bands are about 10cm in width.																		
0	96.09	120.80	IF-F - alternating bands of chert, iron. Bands are between 45-90 on average. Bands range in width between .5cm-3cm on average. Core is medium gray with a greenish hue. Siderite veining is present, not abundant. Fine grained pyrite is present, not abundant.	104825 104826	93.58 96.09	96.09 102.00	2.51 5.91	54.40 50.10	1.85 1.45	29.80 36.30	2.13 2.84	1.35 2.16	0.16 0.12	0.42 0.42	0.06 0.05	0.12 0.20	0.04 0.06	0.01 0.01	0.01 0.01	0.45 0.38	
1	99.48	99.68	IDD - medium green, black greasy on fracture surface. Soft, fine grained																		
1	105.97	107.17	IF-E - 50-60% magnetite, this interval the banding is a low angle, unlike the surrounding IF-F.	104827 104828	102.00 105.97	105.97 107.17	3.97 1.20	55.70 25.10	0.77 0.64	34.30 56.90	1.80 3.09	1.73 3.20	0.09 0.10	0.27 0.29	0.02 0.02	0.21 0.26	0.03 0.04	0.01 0.01	0.01 0.01	0.21 0.29	

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
			there is some jointing and displacement of the bands. The iron bands are 10-20cm wide and the chert is 2-4cm wide. Small amount of fine grained pyrites aligned with the banding.	104829	107.17	111.00	3.83	50.10	1.31	37.20	2.15	1.75	0.16	0.46	0.04	0.19	0.04	0.01	0.01	0.20
				104830	111.00	117.00	6.00	51.10	0.78	37.70	2.74	1.37	0.07	0.22	0.02	0.27	0.07	0.01	0.01	0.64
				104831	117.00	120.80	3.80	51.60	0.44	38.50	2.93	1.32	0.05	0.22	0.01	0.29	0.08	0.01	0.01	0.47
0	120.80	144.28	IF-G	104832	120.80	126.00	5.20	51.10	2.43	33.90	2.39	0.88	0.14	0.25	0.08	0.13	0.13	0.01	0.01	3.73
			- po/py abundant, interlayered chert, mudstone, iron, iron being replaced, po is the dominant mineral, sulphide and siderite disseminated together. Badningis irregular, all of the bands are high angle >70, range in thickness between 1cm and 15cm. Has a green and white appearance. - leans out to zones that have much less mudstone, become light grey in colour, still have sulphide replacements but much less severe than back into higher replacement zones. I almost wanted to label the inside IFF. Zones of high siderite than disappears. Siderite tails zones that have higher mudstone content.	104833	126.00	132.00	6.00	50.20	3.83	34.10	2.36	0.44	0.08	0.15	0.13	0.08	0.15	0.01	0.01	5.89
				104834	132.00	138.00	6.00	67.80	0.60	24.00	1.93	0.64	0.06	0.20	0.02	0.05	0.08	0.01	0.01	0.75
				104835	138.00	144.28	6.28	59.40	1.88	28.80	2.25	0.68	0.13	0.33	0.09	0.09	0.11	0.01	0.01	2.54
0	144.28	152.60	IF-F	104837	144.28	148.00	3.72	55.50	1.05	36.90	2.88	1.23	0.02	0.32	0.04	0.20	0.12	0.01	0.01	0.37
			- medium gray zone, near the upper contact is a iron intrusion, the iron is around this zone is clasts of chert in a matrix of magnetite, clast are large, angular fragments 7cm diameter, banding becomes regular for the last 3 m. alternating bands of mag/chert 1mm-6cm.	104838	148.00	152.60	4.60	53.70	0.33	39.70	2.80	1.03	0.02	0.16	0.01	0.18	0.10	0.01	0.01	0.13
0	152.60	154.50	IDD	104839	152.60	154.50	1.90	86.00	1.21	0.85	2.55	3.51	0.29	0.15	0.04	0.01	0.02	0.04	0.01	0.01
			- medium green, black greasy on fracture																	

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
			surface. Soft, fine grained																	
0	154.50	167.90	IF-F	104841	154.50	159.00	4.50	49.70	0.47	42.30	3.02	1.23	0.02	0.19	0.02	0.21	0.11	0.01	0.01	0.16
			- medium gray, alternating bands of chert and magnetite, magnetite most around 1.5cm upto 6cm, the chert has a broader range, from .5cm-25cm/ A small idd unit and 1 meter back from it is another tectonic zone that has chert, fractured and slightly rounded in a matrix of magnetite.	104842	159.00	165.00	6.00	51.30	1.72	38.30	3.21	1.84	0.07	0.42	0.07	0.22	0.11	0.01	0.01	0.24
				104843	165.00	171.00	6.00	49.40	0.59	43.70	3.03	1.24	0.05	0.25	0.02	0.20	0.11	0.01	0.01	0.24
0	167.90	184.35	IF-F	104844	171.00	175.00	4.00	57.00	0.19	37.50	2.68	1.14	0.01	0.10	0.01	0.13	0.10	0.01	0.01	0.50
			- medium gray, with idd intrusives. Medium gray banded iron, iron banding is irregular, sections of tectonic breccia, large angular clasts of chert in banded iron. Some sections have large stair fractures. Iron bands from 3mm-20cm.																	
1	175.00	176.30	IDD	104845	175.00	177.45	2.45	50.00	8.31	21.50	5.96	4.67	0.64	0.11	0.55	0.28	0.12	0.05	0.02	0.30
			- light green, fine grained, with calcite veining.																	
1	177.00	177.45	IDD																	
			- light green, fine grained, with calcite veining.																	
				104846	177.45	183.79	6.34	52.50	0.47	40.50	2.86	1.14	0.02	0.15	0.02	0.13	0.11	0.01	0.01	0.16
1	183.77	184.35	IDD	104847	183.79	189.00	5.21	54.70	3.36	31.80	3.29	1.65	0.46	0.27	0.16	0.18	0.13	0.02	0.01	0.72
			- light green, fine grained, with calcite veining.																	
0	184.35	192.72	IF-G	104849	189.00	192.72	3.72	57.00	0.53	32.90	2.30	0.82	0.07	0.22	0.01	0.10	0.13	0.01	0.01	0.44
			- pyrite and po altered, mudstone beds present. Some siderite, unit light grey in colour, a lot more chert, iron content around 20% iron bands, around 1mm-20mm. The banding is mostly around 70																	

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
0	192.72	219.30	however becomes more deformed in high chert zones. Po and py both fine grained, increased concentration around mudstone. A few whisps of siderite veining.	104850	192.72	198.00	5.28	50.00	0.13	46.20	1.78	0.86	0.01	0.08	0.01	0.17	0.04	0.01	0.01	0.13
			IF-F	104851	198.00	204.00	6.00	48.10	0.15	47.90	1.68	0.95	0.01	0.07	0.01	0.15	0.03	0.01	0.01	0.06
			- light - medium gray, alternating layers of chert and iron, iron bands typically 1.5cm thick, the bands have undergone plastic deformation. Less than 1 percent pyrite, fine to coarse, disseminated. Some siderite veining with minnesotite, also less than 1 percent.	104852	204.00	206.17	2.17	45.60	0.09	49.80	1.44	0.97	0.01	0.05	0.01	0.13	0.04	0.01	0.01	0.08
1	206.17	207.60	IF-G - whitish green, interbedded white cher, mudstone, grey chert, iron, sulphides present, fine grained pyrites around the green mudstone and disseminated in the chert, po replacement of the iron bands.	104853	206.17	209.17	3.00	56.50	9.31	18.50	3.31	2.63	0.17	1.20	0.47	0.26	0.10	0.01	0.02	2.29
1	207.60	209.17	IDD - soft, greyish green, foliated, sharp contacts, some calcite veining	104854	209.17	214.00	4.83	46.00	0.12	49.60	1.49	0.99	0.01	0.05	0.01	0.12	0.04	0.01	0.01	0.20
0	219.30	229.00	IF-G - interbedded banded iron and chert, a few small mudstone beds, fine grained po and py disseminated throughout, the middle of the unit is less altereded and has the magnetite bands are more coherent. The tails of the unit has higher siderite. There are 4 bands about 10-20cm of massive	104855	214.00	219.30	5.30	41.60	0.14	55.40	1.29	0.75	0.02	0.06	0.01	0.08	0.03	0.01	0.01	0.07
				104856	219.30	225.00	5.70	54.40	0.51	33.40	2.38	0.55	0.03	0.12	0.02	0.07	0.12	0.01	0.01	3.11
				104858	225.00	229.00	4.00	60.10	0.82	27.30	1.85	0.53	0.03	0.07	0.03	0.02	0.17	0.01	0.01	7.39

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**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
			fine-medium grained pyrite, lots of void spaces, those 4 bands are greater than 50% pyrite. The magnetite ranges from 10-30% as some areas have more chert and sulphides. Evidence of brecciation and faulting.																		
0	229.00	244.80	IF-H	104859	229.00	234.00	5.00	40.20	0.16	45.90	3.38	1.58	0.02	0.07	0.01	0.10	0.11	0.01	0.01	0.01	0.17
			- alternating bands of chert and iron, the upper part of the section is relatively low in siderite as is the bottom. The upper part starts with small siderite veins, and has a light grey to creamy green colour, the center is increasingly deformed, bands are either deformed or jointed, the middle section is a light green and cream colour, increased amounts of siderite replacement, presumably minnesotite too, pyrite replacements, siderite veining still present. Magnetite content of the unit is around 20-25% however where the most siderite replacement is, it is between 10-15%.	104860	234.00	240.00	6.00	46.40	0.29	41.20	2.21	1.65	0.03	0.10	0.01	0.12	0.08	0.01	0.01	0.01	0.30
				104861	240.00	244.80	4.80	51.70	0.36	36.30	2.66	0.86	0.04	0.13	0.02	0.06	0.17	0.01	0.01	0.01	0.45
0	244.80	250.75	IF-G	104862	244.80	248.50	3.70	51.60	0.54	37.00	1.78	1.47	0.03	0.10	0.03	0.06	0.17	0.01	0.01	0.01	4.58
			- light grey to medium gray, banding mostly altered and fractured. Disseminated pyrite (fg-mg) and po (fg), along with min (fg) and sid (fg-mg). Iron content 15-20%																		
1	248.50	250.75	IDD	104864	248.50	250.75	2.25	44.30	7.79	25.90	6.05	5.05	1.22	0.04	0.48	0.28	0.11	0.04	0.02	0.02	0.22
			- light green, mixed with IFF at base, calcite veining																		
0	250.75	260.20	IF-F	104865	250.75	255.00	4.25	46.60	0.30	49.40	1.47	0.88	0.01	0.03	0.01	0.09	0.04	0.01	0.01	0.01	0.08
			- medium gray, interbedded chert and magnetite, magnetite on average 2-15mm, chert strain filling in the bands, mostly upright, small amounts of pyrite replacement of the bands, siderite and	104866	255.00	260.20	5.20	47.50	0.37	46.70	1.94	0.90	0.02	0.10	0.08	0.09	0.04	0.01	0.01	0.01	0.12

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %
0	260.20	266.30	pyrite veining present, thin. Iron content about 30% IF-H - alternating bands of mudstone, chert and iron, fold hinge present, mudstone is wispy. The colour is a dark gray with green. The iron bands are about 2.5cm wide, but at lower angles, there is not much iron present, there is a lot of replacement by a green mineral. Py/po/side/minn present mostly fine grained and altering iron bands.	104867	260.20	266.30	6.10	53.10	2.63	30.50	2.70	1.37	0.08	0.21	0.13	0.03	0.13	0.01	0.01	0.60
0	266.30	273.30	SC - cherty to grading into a slaty near the basement sediment contact. Fine interbedded layers, fine to coarse pyrite disseminated and accumulated along foliation or bedding, po along bedding fg. Light gray to dark grey.	104868	266.30	272.30	6.00	58.30	17.40	8.62	2.13	1.88	2.13	2.97	0.76	0.11	0.08	0.02	0.02	1.31
0	273.30	294.00	SM - Basement sediments, light green/gray with yellowy wisps. Fine grained, contains abundant calcite veining.																	

End of Lithology and Assays ;





*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
3.40	6.00	2.60	0.00	0.00	0.90	0.00	3.40	0.00	0.00	0.00	0.00	0.00	
6.00	9.00	3.00	0.00	0.00	0.26	0.00	2.20	0.00	0.00	0.00	0.00	0.00	Part of the core is recovered from casing, had to reem down
9.00	12.00	3.00	0.00	0.00	0.81	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
12.00	15.00	3.00	0.00	0.00	0.69	0.00	2.95	0.00	0.00	0.00	0.00	0.00	
15.00	18.00	3.00	0.00	0.00	0.28	0.00	3.03	0.00	0.00	0.00	0.00	0.00	
18.00	21.00	3.00	0.00	0.00	0.76	0.00	3.01	0.00	0.00	0.00	0.00	0.00	
21.00	24.00	3.00	0.00	0.00	0.42	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
24.00	27.00	3.00	0.00	0.00	1.40	0.00	2.76	0.00	0.00	0.00	0.00	0.00	
27.00	30.00	3.00	0.00	0.00	1.70	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
30.00	33.00	3.00	0.00	0.00	0.33	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
33.00	36.00	3.00	0.00	0.00	1.34	0.00	2.77	0.00	0.00	0.00	0.00	0.00	some fault gout
36.00	39.00	3.00	0.00	0.00	0.86	0.00	2.83	0.00	0.00	0.00	0.00	0.00	
39.00	42.00	3.00	0.00	0.00	0.55	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
42.00	45.00	3.00	0.00	0.00	1.05	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
45.00	48.00	3.00	0.00	0.00	1.24	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
48.00	51.00	3.00	0.00	0.00	1.18	0.00	2.92	0.00	0.00	0.00	0.00	0.00	
51.00	54.00	3.00	0.00	0.00	0.82	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
54.00	57.00	3.00	0.00	0.00	1.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
57.00	60.00	3.00	0.00	0.00	1.66	0.00	2.55	0.00	0.00	0.00	0.00	0.00	
60.00	63.00	3.00	0.00	0.00	1.83	0.00	2.13	0.00	0.00	0.00	0.00	0.00	
63.00	66.00	3.00	0.00	0.00	1.96	0.00	2.36	0.00	0.00	0.00	0.00	0.00	
66.00	69.00	3.00	0.00	0.00	1.79	0.00	2.70	0.00	0.00	0.00	0.00	0.00	
69.00	72.00	3.00	0.00	0.00	0.85	0.00	2.80	0.00	0.00	0.00	0.00	0.00	
72.00	75.00	3.00	0.00	0.00	1.28	0.00	2.51	0.00	0.00	0.00	0.00	0.00	
75.00	78.00	3.00	0.00	0.00	0.52	0.00	3.08	0.00	0.00	0.00	0.00	0.00	
78.00	81.00	3.00	0.00	0.00	0.18	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
81.00	84.00	3.00	0.00	0.00	0.27	0.00	3.05	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	%ces>100	Calcul	RQP	%ces<100	tal	Recover	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%			%									
84.00	87.00	3.00	0.00	0.00	0.15	0.00	2.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
87.00	90.00	3.00	0.00	0.00	0.16	0.00	3.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
90.00	93.00	3.00	0.00	0.00	0.38	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
93.00	96.00	3.00	0.00	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
96.00	99.00	3.00	0.00	0.00	0.06	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
99.00	102.00	3.00	0.00	0.00	0.30	0.00	3.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
102.00	105.00	3.00	0.00	0.00	0.40	0.00	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
105.00	108.00	3.00	0.00	0.00	0.20	0.00	3.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
108.00	111.00	3.00	0.00	0.00	0.07	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
111.00	114.00	3.00	0.00	0.00	0.24	0.00	3.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
114.00	117.00	3.00	0.00	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
117.00	120.00	3.00	0.00	0.00	0.00	0.00	3.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
120.00	123.00	3.00	0.00	0.00	0.07	0.00	3.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
123.00	126.00	3.00	0.00	0.00	0.17	0.00	2.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
126.00	129.00	3.00	0.00	0.00	0.17	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
129.00	132.00	3.00	0.00	0.00	0.19	0.00	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
132.00	135.00	3.00	0.00	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
135.00	138.00	3.00	0.00	0.00	0.15	0.00	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
138.00	141.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
141.00	144.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
144.00	147.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
147.00	150.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
150.00	153.00	3.00	0.00	0.00	0.16	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
153.00	156.00	3.00	0.00	0.00	0.15	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
156.00	159.00	3.00	0.00	0.00	0.22	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
159.00	162.00	3.00	0.00	0.00	0.18	0.00	3.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
162.00	165.00	3.00	0.00	0.00	0.09	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
165.00	168.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
168.00	171.00	3.00	0.00	0.00	0.00	0.00	2.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
171.00	174.00	3.00	0.00	0.00	0.33	0.00	3.08	0.00	0.00	0.00	0.00	0.00	
174.00	177.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
177.00	180.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
180.00	183.00	3.00	0.00	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00	0.00	
183.00	186.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
186.00	189.00	3.00	0.00	0.00	0.09	0.00	3.06	0.00	0.00	0.00	0.00	0.00	
189.00	192.00	3.00	0.00	0.00	0.27	0.00	3.05	0.00	0.00	0.00	0.00	0.00	
192.00	195.00	3.00	0.00	0.00	0.15	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
195.00	198.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
198.00	201.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
201.00	204.00	3.00	0.00	0.00	0.08	0.00	3.06	0.00	0.00	0.00	0.00	0.00	
204.00	207.00	3.00	0.00	0.00	0.13	0.00	2.92	0.00	0.00	0.00	0.00	0.00	
207.00	210.00	3.00	0.00	0.00	0.49	0.00	2.96	0.00	0.00	0.00	0.00	0.00	
210.00	213.00	3.00	0.00	0.00	0.27	0.00	2.96	0.00	0.00	0.00	0.00	0.00	
213.00	216.00	3.00	0.00	0.00	0.08	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
216.00	219.00	3.00	0.00	0.00	0.23	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
219.00	222.00	3.00	0.00	0.00	0.15	0.00	3.07	0.00	0.00	0.00	0.00	0.00	
222.00	225.00	3.00	0.00	0.00	0.21	0.00	2.95	0.00	0.00	0.00	0.00	0.00	
225.00	228.00	3.00	0.00	0.00	0.15	0.00	2.98	0.00	0.00	0.00	0.00	0.00	
228.00	231.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
231.00	234.00	3.00	0.00	0.00	0.19	0.00	3.03	0.00	0.00	0.00	0.00	0.00	
234.00	237.00	3.00	0.00	0.00	0.09	0.00	2.95	0.00	0.00	0.00	0.00	0.00	
237.00	240.00	3.00	0.00	0.00	0.00	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.9m of core spun, all mechanical
240.00	243.00	3.00	0.00	0.00	0.62	0.00	2.92	0.00	0.00	0.00	0.00	0.00	
243.00	246.00	3.00	0.00	0.00	0.02	0.00	3.05	0.00	0.00	0.00	0.00	0.00	
246.00	249.00	3.00	0.00	0.00	0.41	0.00	2.98	0.00	0.00	0.00	0.00	0.00	
249.00	252.00	3.00	0.00	0.00	0.09	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
252.00	255.00	3.00	0.00	0.00	0.09	0.00	3.03	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

From	To	length	%ces>100	Calcu	RQP	%ces<100	tal	Recove	Recovery	Fractures	sacts/Leng	Veins	ains/Leng	Angle	Description
			%			%									
255.00	258.00	3.00	0.00	0.00	0.00	0.00	0.00	2.99	0.00	0.00	0.00	0.00	0.00	0.00	
258.00	261.00	3.00	0.00	0.00	0.08	0.00	0.00	3.07	0.00	0.00	0.00	0.00	0.00	0.00	
261.00	264.00	3.00	0.00	0.00	0.17	0.00	0.00	3.04	0.00	0.00	0.00	0.00	0.00	0.00	
264.00	267.00	3.00	0.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	
267.00	270.00	3.00	0.00	0.00	0.10	0.00	0.00	3.04	0.00	0.00	0.00	0.00	0.00	0.00	
270.00	273.00	3.00	0.00	0.00	0.53	0.00	0.00	2.86	0.00	0.00	0.00	0.00	0.00	0.00	
273.00	276.00	3.00	0.00	0.00	0.22	0.00	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00	
276.00	279.00	3.00	0.00	0.00	0.37	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	
279.00	282.00	3.00	0.00	0.00	0.29	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	
282.00	285.00	3.00	0.00	0.00	0.21	0.00	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00	
285.00	288.00	3.00	0.00	0.00	0.04	0.00	0.00	3.06	0.00	0.00	0.00	0.00	0.00	0.00	
288.00	291.00	3.00	0.00	0.00	0.09	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	
291.00	294.00	3.00	0.00	0.00	0.12	0.00	0.00	2.91	0.00	0.00	0.00	0.00	0.00	0.00	EOH

End of RQD ; 97 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
3.70	24.48	IF-F			30	0	2	1	2	40	0
24.48	37.94	sag			0	0	3	15	0	10	0
46.72	47.50	slc			5	0	0	5	0	70	0
60.21	75.00	SAG			0	0	0	30	0	20	0
87.78	91.65	SLC			10	0	2	2	3	50	0
91.65	93.58	IF-F			20	0	0	2	3	40	0
93.58	96.09	SLC			8	0	2	2	2	50	0
96.09	105.97	IF-F			35	0	0	1	3	50	0
105.97	107.17	IF-E			55	0	0	2	0	35	0
107.17	120.80	IF-F			35	0	3	3	1	58	0
120.80	129.00	IF-G			15	0	15	5	3	40	0
129.00	140.00	IF-G			15	0	8	2	3	65	0
140.00	144.28	IF-G			15	0	12	4	4	50	0
144.28	152.00	IF-F			30	0	2	2	0	0	0
154.50	162.68	IF-F			30	0	4	4	2	50	0
163.37	167.90	IF-F			25	0	1	1	1	60	0
167.90	175.00	IF-F			40	0	3	2	0	55	0
176.30	177.00	IF-F			30	0	0	0	0	70	0
177.45	183.77	IF-F			40	0	0	1	0	60	0
184.35	192.80	IF-G			20	0	5	5	1	60	0
192.80	206.17	IF-F			30	0	0	1	1	65	0
209.17	219.30	IF-F			35	0	0	1	1	60	0
219.30	229.00	IF-G			15	0	15	17	3	50	0
229.00	244.80	IF-H			20	0	0	5	15	60	0
244.80	248.50	IF-G			15	0	10	15	5	55	0

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
250.75	260.20	IF-F			30	0	0	2	2	65	0
260.20	266.30	IF-H			15	0	3	2	10	60	0

End of Mineralizations ; 27 record(s) printed.





*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
10.05	130.00	S1	displcement plane, angular shift ins So of chert and iron
10.22	35.00	S0	banding plane
23.00	45.00	S0	banding plane
24.48	70.00	Cnt	contact bif/sag
33.06	50.00	S1	foliation in the sag
33.31	55.00	Cnt	contact sag/idb (small idb)
47.00	70.00	S0	banding plane (SLC - iron) - section between last measurement brecciated
56.36	80.00	S0	banding plane - chert w sulphides
61.00	65.00	S1	foliation - SAG
68.75	75.00	S1	foliation - slate (part of SAG)
81.75	5.00	VQ	brecciated cherts in a matrix of mudstone, mudstone can be very large. Vein in a unit of mudstone about 1m long
87.78	50.00	S0	banding
96.78	45.00	S0	banding
107.20	65.00	S0	banding
117.25	75.00	S0	banding
122.40	65.00	S0	band
123.60	25.00	S0	band - tectonic zone
124.40	60.00	S0	banding
132.60	65.00	S0	banding
142.90	60.00	S0	banding
151.10	75.00	S0	banding
152.60	65.00	Cnt	iff/IDD
159.65	75.00	S0	BANDING
172.66	75.00	S0	banding
183.14	50.00	S0	banding

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
192.80	60.00	S1	deformed banding
202.80	40.00	S1	deformed banding
207.60	20.00	Cnt	banded iron/idb
214.37	30.00	S1	staggered banding ave and 30, dominant angle 50
224.10	40.00	S0	banding
242.93	50.00	S1	deformed banding
248.50	115.00	Cnt	iron formation/ idb - the bottom contact is steeper and sharper, contains 1.5mm alteration halo
254.72	50.00	S0	banding
262.88	25.00	S1	deformed banding - fold hinge
263.00	115.00	S1	deformed banding - fold hinge
273.30	55.00	S1	foliation - intermediate unit
282.24	35.00	S1	bedding or foliation - basement seds
286.30	135.00	Vcc	carbonate veins in basement seds
292.60	40.00	S1	foliation - basement seds

End of Structures ;            39 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-**RadioHill** DDH2011.accdb*

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**Hole:** RH-11-07

<b>Easting:</b> 413001.30	<b>Northing:</b> 5334070.00	<b>Elevation:</b> 442.30
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 243.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> Orbit Garant
<b>Started:</b> 24/11/2011	<b>Finished:</b> 29/11/2011	<b>Logged By:</b> Matthew Halliday
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b> Hole was closed by Doug on my time off,		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
15.00	222.80	0.00	-45.70	EZ Shot	Inactive
90.00	248.60	0.00	-45.30	EZ Shot	Inactive
171.00	239.20	0.00	-42.50	EZ Shot	Inactive
246.00	230.70	0.00	-41.20	EZ Shot	Inactive

54.00	237.20	0.00	-45.70	EZ Shot	Inactive
141.00	216.00	0.00	-43.70	EZ Shot	Inactive
222.00	235.90	0.00	-41.10	EZ Shot	Inactive

End of Deviations ; 7 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	0.00	6.00	OVB																		
0	6.00	10.44	SC - alternating bands of chert and mudstone, fractures, dull grey-greenish grey, oxidized fractures, possible magnetite bands, fully oxidized																		
0	10.44	20.62	IF-H - fractured and oxidized, alternating bands of chert, mudstone, and siderite/pyrite alterations. Some magnetite bands present, completely altered to rust, zones with green mudstone have more pyritization, cherty zones have more sideritization. Siderite, fine grained, pyrite is fine to medium grained. Bedding is chaotic, more folding in less competent mudstone horizons, alteration along veins.																		
0	20.62	37.80	SCL - alternating bands of magnetit, mudstone, siderite and chert, this unit has been silicified, dominantly cherty, banding is irregular and destroyed in sections, a lot of oxidation particularly the end of the unit. They unit is light grey, white to orange.	104937	30.00	37.80	7.80	72.80	3.92	15.60	1.01	0.10	0.01	0.39	0.17	0.08	0.03	0.02	0.01	1.20	
1	33.00	37.80	FZ - well oxidized idb (presumably) orange in colour, light yellow mud at the beginning of the unit, semi compacted, with SCL-IFF in the center the unit is well fractured and oxidized, the rock is brittle to crumbly.																		
0	37.80	48.85	IF-F - low grade iff, oxidized, silicified, fractured,	104938 104939	37.80 42.00	42.00 48.85	4.20 6.85	53.70 48.10	0.39 0.41	32.40 39.10	1.89 1.66	0.18 0.24	0.02 0.02	0.02 0.11	0.02 0.02	0.05 0.08	0.11 0.09	0.01 0.01	0.01 0.01	0.73 0.42	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
1	48.00	48.85	sheared, hydrothermally brecciated. It is light grey to dark grey in appearance, some banding is present, mostly it is hydrothermally altered, there are displacement planes where bedding is interrupted, and also places with mild brecciation, angular blocks and fractures. IF-F - shear zone																		
0	48.85	71.50	IDB - Large intrusive, highly fractures, brittle rock, light grey to green in colour, mostly very fine grained. Fracture fill can be either carbonate or quartz, some is weathered. There is mild oxidation throughout, particularly near iron, there are siderite veins, and some sections have a soft soapy texture (like grabbing a bar of smooth soap)	104941 104942	48.85 54.85	54.85 60.85	6.00 6.00	58.80 56.20	15.30 11.60	10.60 20.40	3.29 2.66	0.72 0.56	4.14 2.80	1.40 0.91	0.68 0.53	0.35 0.33	0.10 0.07	0.02 0.02	0.02 0.01	0.01 0.01	
1	57.00	57.70	IF-F - small band of iff in the intrusive, weathered and fractures, some oxidation																		
1	64.13	66.00	IF-F - weathered oxidized and fractured, grey to red, bands are about 60 degrees, and range from mm-60mm	104943	60.85	66.85	6.00	53.30	7.97	29.20	2.19	0.47	1.94	0.59	0.33	0.26	0.08	0.01	0.01	0.38	
0	71.50	84.10	IF-F - alternating bands of chert and iron, light to medium grey, iron thickness from about 3mm-12,, on average, there is about 35%	104944 104945 104946	66.85 71.50 75.00	71.50 75.00 81.00	4.65 3.50 6.00	59.60 45.20 49.50	14.50 0.38 1.30	11.00 48.80 41.00	3.28 1.45 2.10	0.66 1.05 0.91	2.96 0.04 0.01	1.67 0.17 0.21	0.62 0.01 0.08	0.37 0.19 0.15	0.09 0.07 0.07	0.02 0.01 0.01	0.01 0.01 0.01	0.22 0.22 0.14	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
1	75.42	76.05	iron, bedding is on average between 55-70. there is mild alteration and fractures, there is a gradation into lf-h, some mudstone but <3%.  IDD - green, fine grained, weathered cement in the fractures. 35degree fractures.																		
0	84.10	110.70	IF-H - creamy to grey, alternating bands of mag, chert and siderite replacement, there is some pyrite replacement zones, almost massive pyrite, and there is disseminated pyrite finegrained with the siderite. Banding is mostly between 60-80degrees. Iron is leaqn, there is some hydrothermal alteration zones, and the intrusives are soft and fractured. Many of the bands have tension gashes.	104947	81.00	84.10	3.10	48.20	0.26	41.00	1.32	0.31	0.01	0.09	0.01	0.12	0.03	0.01	0.01	0.23	
				104949	84.10	90.00	5.90	46.60	2.07	37.20	1.83	0.37	0.09	0.33	0.11	0.14	0.07	0.02	0.01	0.87	
1	88.00	88.90	IDD - soft fractured, white to green, weathered, low density																		
1	89.35	89.70	IDD - soft fractured, white to green, weathered, low density																		
				104950	90.00	96.00	6.00	45.90	0.23	36.30	1.82	0.35	0.01	0.03	0.01	0.08	0.09	0.01	0.01	0.61	
				104951	96.00	102.00	6.00	40.60	0.61	38.10	2.51	0.41	0.01	0.04	0.04	0.10	0.11	0.01	0.01	0.89	
1	100.40	100.55	IDD - white soft, weathered chalky																		
				104953	102.00	105.00	3.00	49.30	1.84	30.60	2.99	0.38	0.02	0.06	0.14	0.13	0.16	0.02	0.01	0.32	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
1	102.25	102.80	IDD - soft fractured, white to green, weathered, low density																		
				104954	105.00	110.70	5.70	44.30	0.26	35.40	2.17	0.38	0.01	0.01	0.02	0.10	0.13	0.01	0.01	1.42	
0	110.70	114.24	IF-F - I section of less siderite alteration, same as previous, medium gray in colour, iron bands between 1mm-30mm thick	104955	110.70	114.24	3.54	42.90	0.05	43.40	1.54	0.38	0.01	0.01	0.01	0.11	0.05	0.01	0.01	0.13	
0	114.24	120.00	IF-H - ...	104956	114.24	120.00	5.76	48.30	0.12	32.80	2.21	0.36	0.02	0.01	0.01	0.07	0.10	0.01	0.01	0.17	
0	120.00	138.20	IF-G - this is a mix zone of If-G and IF-H. lots of hydro alteration, banding of cherts/sid/ms/ and low magnetite <5%. Siderite is hard to identify, look similar to chert, siderite has fine grained pyrite disseminated and some minnesotite, the mudstone units have intense pyritization, sub massive, the pyrite is fine-medium grained. Siderite is predominantly finegrained, and silica comprise 60-70% of the whole unit, I didn't sample																		
0	138.20	159.00	IF-H - similar to the last unit, but less pyritic zones and mudstone. The tail of the unit, 153-159 has magnetic iron upto 20%, and also an increase in siderite. If grades into If- F and the iron content jumps dramatically when jasper is found. Core is light grey to creamy grey	104957 104958	147.00 153.00	153.00 159.00	6.00 6.00	56.90 38.80	0.80 0.23	25.90 41.80	2.26 2.22	0.30 0.38	0.07 0.02	0.06 0.02	0.04 0.01	0.07 0.06	0.13 0.05	0.01 0.01	0.01 0.01	1.15 0.01	
0	159.00	210.00	IF-F - jasper till 190, dark coloured core, either dark grey or reddish dark grey, the bedding is uniform and iron bands are on average	104959 104960 104961 104962	159.00 165.00 171.00 177.00	165.00 171.00 177.00 183.00	6.00 6.00 6.00 6.00	44.50 44.00 45.90 43.80	0.06 0.10 0.05 0.12	48.70 50.20 47.90 48.50	1.26 1.17 1.47 1.67	0.26 0.23 0.31 0.21	0.01 0.01 0.01 0.01	0.01 0.02 0.01 0.01	0.01 0.02 0.01 0.01	0.07 0.07 0.08 0.07	0.02 0.02 0.03 0.04	0.01 0.02 0.01 0.01	0.01 0.01 0.01 0.01	0.05 0.14 0.08 0.14	



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
			between 1mm-10mm. Though there are some siderite bands, the unit is mostly interbedded chert and magnetite.	104963	183.00	189.00	6.00	42.20	0.20	50.70	1.34	0.42	0.01	0.02	0.03	0.09	0.03	0.02	0.01	0.07
				104964	189.00	195.00	6.00	48.30	0.12	45.70	1.00	0.39	0.01	0.01	0.03	0.08	0.02	0.02	0.01	0.21
				104965	195.00	201.00	6.00	47.70	0.81	42.40	2.23	1.26	0.16	0.07	0.06	0.12	0.05	0.02	0.01	0.15
1	199.30	199.75	IDD - matte green, fine grained, soft																	
				104966	201.00	207.00	6.00	46.00	1.07	40.00	2.17	0.75	0.18	0.20	0.06	0.12	0.05	0.01	0.01	0.11
1	203.57	204.12	IDD - matte green, fine grained, soft																	
				104967	207.00	210.00	3.00	44.10	0.15	43.70	2.03	0.42	0.01	0.06	0.01	0.08	0.04	0.01	0.01	0.05
0	210.00	216.00	IF-H - some coarse siderite veins, and pyritization, mostly beds of chert/mad/fg siderite - hydrothermally altered, and grades to SC have faultzone in the middle	104969	210.00	216.00	6.00	46.70	1.32	33.00	2.39	0.42	0.01	0.18	0.07	0.10	0.08	0.01	0.01	0.55
1	213.00	214.50	FZ - weathered mud fill, grey gouge																	
0	216.00	236.30	SC - !!! Because this is still part of the iron formation I called it SC, there is abundant mudstone, green chloritized. Intercallated mudstone and chert units, some fg pyrite in the fractures, some siderite. The core is green to grey. The idb intrusions are well cemented, chert sometimes looks dumped into a matrix of mudstone, near 237 beds are blocked and pulled apart																	
1	221.85	222.10	IDB - medium grained/ grey, 90 degree contact, cemented strong																	
1	230.25	230.55	IDB																	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
0	236.30	243.00	SLC - medium grained/ grey, 90 degree contact, cemented strong - this is a green mudstone unit with SC fragments and beds, contains 5% magnetite, broken and bent beds, EOH																		

End of Lithology and Assays ;

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-**RadioHill** DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	sacts/Leng	Veins	ains/Leng	Angle	Description
			%	%	%	%	%						
6.00	9.00	3.00	0.00	0.00	0.29	0.00	2.07	0.00	0.00	0.00	0.00	0.00	0.00 fractures
9.00	12.00	3.00	0.00	0.00	0.95	0.00	2.40	0.00	0.00	0.00	0.00	0.00	0.00 oxidized (mild)
12.00	15.00	3.00	0.00	0.00	1.34	0.00	2.65	0.00	0.00	0.00	0.00	0.00	0.00 oxidized (mild)
15.00	18.00	3.00	0.00	0.00	1.33	0.00	2.83	0.00	0.00	0.00	0.00	0.00	0.00 oxidized (mild) - ends in rubble/grind
18.00	21.00	3.00	0.00	0.00	1.43	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00 oxidized (mild) - fractured
21.00	24.00	3.00	0.00	0.00	0.87	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00 oxidized (mild)
24.00	27.00	3.00	0.00	0.00	0.57	0.00	3.10	0.00	0.00	0.00	0.00	0.00	0.00 oxidized (mild) -
27.00	30.00	3.00	0.00	0.00	1.38	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00 oxidized (mild)
30.00	33.00	3.00	0.00	0.00	0.95	0.00	1.24	0.00	0.00	0.00	0.00	0.00	0.00 oxidized - fault gouge and mud fill - low recovery
33.00	36.00	3.00	0.00	0.00	1.74	0.00	2.20	0.00	0.00	0.00	0.00	0.00	0.00 oxidized - heavily fractured - low recovery
36.00	39.00	3.00	0.00	0.00	0.93	0.00	1.67	0.00	0.00	0.00	0.00	0.00	0.00 oxidized - oxidized sandy unit orange and fractured
39.00	42.00	3.00	0.00	0.00	1.02	0.00	2.77	0.00	0.00	0.00	0.00	0.00	0.00 oxidized, longitudinal fractures
42.00	45.00	3.00	0.00	0.00	1.14	0.00	2.97	0.00	0.00	0.00	0.00	0.00	0.00 oxidized (mild)
45.00	48.00	3.00	0.00	0.00	0.97	0.00	3.03	0.00	0.00	0.00	0.00	0.00	0.00 oxidized (mild)
48.00	51.00	3.00	0.00	0.00	1.56	0.00	2.73	0.00	0.00	0.00	0.00	0.00	0.00 oxidized (very mild) - heavily fractured
51.00	54.00	3.00	0.00	0.00	2.26	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00 oxidized (mild) - heavily fractured, angular fragments
54.00	57.00	3.00	0.00	0.00	2.15	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00 oxidized (very mild) - heavily fractured
57.00	60.00	3.00	0.00	0.00	0.77	0.00	1.13	0.00	0.00	0.00	0.00	0.00	0.00 low recovery - possibly a fault, some tectonic brecciation, core lost at the top of the rung (near 57 mark)
60.00	63.00	3.00	0.00	0.00	0.88	0.00	1.30	0.00	0.00	0.00	0.00	0.00	0.00 low recovery - intrusive
63.00	66.00	3.00	0.00	0.00	1.85	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00 oxidized - soft weathered fill in fractures,

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	sacts/Leng	Veins	ains/Leng	Angle	Description
			%	%	%	%	%						
66.00	69.00	3.00	0.00	0.00	1.93	0.00	2.69	0.00	0.00	0.00	0.00	0.00	oxidized - heavily fractured, sections of angular gravels (intrusives)
69.00	72.00	3.00	0.00	0.00	1.98	0.00	2.88	0.00	0.00	0.00	0.00	0.00	fractured intrusives
72.00	75.00	3.00	0.00	0.00	0.00	0.00	3.28	0.00	0.00	0.00	0.00	0.00	solid
75.00	78.00	3.00	0.00	0.00	0.86	0.00	2.90	0.00	0.00	0.00	0.00	0.00	iron formation is good, dyke is fractured, corespun at end of rod
78.00	81.00	3.00	0.00	0.00	0.27	0.00	2.91	0.00	0.00	0.00	0.00	0.00	
81.00	84.00	3.00	0.00	0.00	0.16	0.00	3.02	0.00	0.00	0.00	0.00	0.00	
84.00	87.00	3.00	0.00	0.00	0.54	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
87.00	90.00	3.00	0.00	0.00	0.65	0.00	2.87	0.00	0.00	0.00	0.00	0.00	fractures associated with dykes, (soft)
90.00	93.00	3.00	0.00	0.00	0.40	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
93.00	96.00	3.00	0.00	0.00	0.30	0.00	2.98	0.00	0.00	0.00	0.00	0.00	
96.00	99.00	3.00	0.00	0.00	0.07	0.00	3.01	0.00	0.00	0.00	0.00	0.00	
99.00	102.00	3.00	0.00	0.00	0.19	0.00	2.98	0.00	0.00	0.00	0.00	0.00	<10cm fragments associated with dyke only
102.00	105.00	3.00	0.00	0.00	0.71	0.00	3.10	0.00	0.00	0.00	0.00	0.00	dykes are soft
105.00	108.00	3.00	0.00	0.00	0.54	0.00	2.67	0.00	0.00	0.00	0.00	0.00	core is brittle and silicified, with bands of green pyritized mudstone soft
108.00	111.00	3.00	0.00	0.00	0.55	0.00	3.03	0.00	0.00	0.00	0.00	0.00	
111.00	114.00	3.00	0.00	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00	0.00	all breaks are mechanical
114.00	117.00	3.00	0.00	0.00	0.13	0.00	3.30	0.00	0.00	0.00	0.00	0.00	
117.00	120.00	3.00	0.00	0.00	0.45	0.00	2.87	0.00	0.00	0.00	0.00	0.00	
120.00	123.00	3.00	0.00	0.00	0.24	0.00	2.95	0.00	0.00	0.00	0.00	0.00	
123.00	126.00	3.00	0.00	0.00	0.44	0.00	3.04	0.00	0.00	0.00	0.00	0.00	
126.00	129.00	3.00	0.00	0.00	0.09	0.00	3.01	0.00	0.00	0.00	0.00	0.00	
129.00	132.00	3.00	0.00	0.00	0.18	0.00	3.07	0.00	0.00	0.00	0.00	0.00	
132.00	135.00	3.00	0.00	0.00	0.47	0.00	2.87	0.00	0.00	0.00	0.00	0.00	
135.00	138.00	3.00	0.00	0.00	0.36	0.00	2.80	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%	%	%	%	%						
138.00	141.00	3.00	0.00	0.00	0.25	0.00	3.05	0.00	0.00	0.00	0.00	0.00	
141.00	144.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	some mechanical breaks
144.00	147.00	3.00	0.00	0.00	0.32	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
147.00	150.00	3.00	0.00	0.00	0.15	0.00	3.04	0.00	0.00	0.00	0.00	0.00	
150.00	153.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
153.00	156.00	3.00	0.00	0.00	1.38	0.00	2.99	0.00	0.00	0.00	0.00	0.00	series of subvertical brittle fractures, mild weatherin on fracture surface
156.00	159.00	3.00	0.00	0.00	0.15	0.00	2.97	0.00	0.00	0.00	0.00	0.00	
159.00	162.00	3.00	0.00	0.00	0.90	0.00	2.86	0.00	0.00	0.00	0.00	0.00	longitudinal fractures
162.00	165.00	3.00	0.00	0.00	0.12	0.00	2.94	0.00	0.00	0.00	0.00	0.00	
165.00	168.00	3.00	0.00	0.00	0.18	0.00	3.03	0.00	0.00	0.00	0.00	0.00	
168.00	171.00	3.00	0.00	0.00	0.29	0.00	2.98	0.00	0.00	0.00	0.00	0.00	
171.00	174.00	3.00	0.00	0.00	0.25	0.00	2.91	0.00	0.00	0.00	0.00	0.00	
174.00	177.00	3.00	0.00	0.00	0.11	0.00	3.02	0.00	0.00	0.00	0.00	0.00	
177.00	180.00	3.00	0.00	0.00	0.14	0.00	3.05	0.00	0.00	0.00	0.00	0.00	
180.00	183.00	3.00	0.00	0.00	1.40	0.00	2.26	0.00	0.00	0.00	0.00	0.00	? Maybe fault zone
183.00	186.00	3.00	0.00	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00	0.00	
186.00	189.00	3.00	0.00	0.00	0.00	0.00	3.07	0.00	0.00	0.00	0.00	0.00	
189.00	192.00	3.00	0.00	0.00	0.15	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
192.00	195.00	3.00	0.00	0.00	0.27	0.00	3.04	0.00	0.00	0.00	0.00	0.00	
195.00	198.00	3.00	0.00	0.00	0.07	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
198.00	201.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
201.00	204.00	3.00	0.00	0.00	0.27	0.00	2.92	0.00	0.00	0.00	0.00	0.00	
204.00	207.00	3.00	0.00	0.00	0.11	0.00	3.04	0.00	0.00	0.00	0.00	0.00	
207.00	210.00	3.00	0.00	0.00	0.08	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
210.00	213.00	3.00	0.00	0.00	0.33	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
213.00	216.00	3.00	0.00	0.00	1.06	0.00	2.64	0.00	0.00	0.00	0.00	0.00	fault zone
216.00	219.00	3.00	0.00	0.00	0.33	0.00	3.03	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>CalculRQP</i>	<i>Pces&lt;100</i>	<i>talRecover</i>	<i>Recovery</i>	<i>Fractures</i>	<i>sacts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
			%	%	%	%	%						
219.00	222.00	3.00	0.00	0.00	0.22	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
222.00	225.00	3.00	0.00	0.00	0.25	0.00	2.96	0.00	0.00	0.00	0.00	0.00	
225.00	228.00	3.00	0.00	0.00	0.13	0.00	3.02	0.00	0.00	0.00	0.00	0.00	
228.00	231.00	3.00	0.00	0.00	0.21	0.00	3.07	0.00	0.00	0.00	0.00	0.00	
231.00	234.00	3.00	0.00	0.00	0.11	0.00	2.97	0.00	0.00	0.00	0.00	0.00	
234.00	237.00	3.00	0.00	0.00	0.52	0.00	3.03	0.00	0.00	0.00	0.00	0.00	
237.00	240.00	3.00	0.00	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00	0.00	
240.00	243.00	3.00	0.00	0.00	0.27	0.00	2.83	0.00	0.00	0.00	0.00	0.00	EOH

End of RQD ; 79 record(s) printed.





*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
0.00	69.00	Oxidized		

End of Alterations ; 1 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
37.80	48.85	IF-F			40	5	0	0	2	50	0
57.00	57.70	IF-F			40	0	0	0	0	60	0
64.13	66.00	IF-F			40	0	0	4	0	50	0
71.50	84.10	IF-F			35	0	0	2	5	60	0
84.10	110.70	IF-H			20	0	0	10	20	50	0
110.70	114.24	IF-F			35	0	0	2	5	60	0
114.24	120.00	IF-H			5	0	0	30	2	60	0
120.00	138.20	IF-G			10	0	5	5	15	55	0
138.20	153.00	IF-H			5	0	0	5	15	60	0
153.00	159.00	IF-H			20	0	0	0	20	60	0
159.00	201.00	IF-F			45	0	0	1	2	50	0
201.00	210.00	IF-F			30	0	0	1	5	60	0
210.00	216.00	IF-H			10	0	0	5	25	50	0

End of Mineralizations ; 13 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
20.80	35.00	S0	bedding
29.70	70.00	S0	bedding
29.80	10.00	Flt	oxidized
39.10	40.00	S1	foliation, shear fabric
43.00	35.00	S0	bedding
57.00	30.00	Cnt	int/bif
59.80	35.00	Cnt	bif/int - bif crosscut
69.50	20.00	Flt	series of joints, sharp brittle rock, weathered fill in the intrusive
71.42	60.00	Cnt	int/bif sharp with weathered fill, bif is altered and weather upto 72m
72.60	50.00	S0	bedding - tensile fractures within the iron, not chert
73.52	80.00	S1	fold hinge is 80, limbs are 50/30 chert is brittle blocked around the iron fold with short angular sections.
75.42	50.00	Cnt	sharp bif/int
76.05	40.00	Cnt	sharp but weathered contact, oxidized
85.00	40.00	S0	less cohesive beds are pinched
94.72	60.00	S0	
95.04	85.00	Flt	bedding dramatically changed, well semented thin,
106.05	60.00	S0	bedding
107.00	50.00	S0	50-60 approx
107.00	20.00	S1	direction of shearing, beding is sheared and brittley displaced
125.00	45.00	S0	altered zone, many fractures and slips
135.00	45.00	S1	foliation
145.00	30.00	S1	bands are wavy, some faulted
156.00	55.00	S0	banding is regular and clean, some tension gashes in iron
165.00	50.00	S0	banding is regular and clean, some tension gashes in iron
175.00	50.00	S0	banding is regular and clean, some tension gashes in iron

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Structures:*

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
185.00	20.00	S0	banding alternates between 20-50, jointed beds, tension gashes, folded ductile deformation
195.00	85.00	S0	re destroyed by alteration, others are clean, some beds have disoriented lenticular clasts of chert between them
213.25	90.00	Flt	fault zone, mud fill, very soft
217.00	85.00	S0	
227.00	85.00	S0	85-90, mud, clast falling into the mud, some bedded with the mud?
236.00	80.00	S0	chert bedding, very thin beds

End of Structures ;            31 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-08

<b>Easting:</b> 412560.30	<b>Northing:</b> 5334006.60	<b>Elevation:</b> 430.70
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 102.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> Orbit Garant
<b>Started:</b> 12/11/2011	<b>Finished:</b> 14-11-2011	<b>Logged By:</b> Matthew Halliday
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
12.00	228.50	0.00	-44.30	EZ Shot	Inactive
102.00	190.10	0.00	-44.20	EZ Shot	Active

63.00	206.70	0.00	-43.70	EZ Shot	Inactive
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End of Deviations ; 3 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	0.00	4.80	OVB - overburden																		
0	4.80	14.85	SLC - collar into an SLC, this section is hydrothermally brecciated, with large to medium clast of sc, angular or blocky fracture. The matrix appears to be a dark chert also. This zone contains some iron bands, typically at a 30 degree angle, and have been completely oxidized. Only one band did I get some magnetism off of. The color is a medium gray with white and rust.																		
0	14.85	23.55	SC - same as above, still rust in fractures, no bands of replaced iron	104869 104870	16.55 22.55	22.55 26.55	6.00 4.00	39.70 43.60	0.44 3.39	38.60 35.30	2.20 3.32	0.91 2.05	0.02 0.02	0.04 0.15	0.02 0.18	0.14 0.15	0.07 0.08	0.01 0.02	0.01 0.01	0.29 0.11	
0	23.55	29.85	IF-H - Zone is highly altered under shear strain, contains magnetite, though banding is mostly distorted away. The magnetite content in the section is about 10%. The unit is green-grey to pinkish grey, as it alternated between green mudstone and cherty sections. The section has abundant siderite veining, from thin wisps to 2cm wide typically 90 degrees from prominent strain. Vein siderite is fine to medium grained. Siderite is also HBX chert iron sections throughout as a fine grained alteration. Fine grained pyrite and po are observed in fractures. The section also contains some intrusive diabase.	104871	26.55	29.85	3.30	48.40	3.28	32.20	3.00	1.34	0.02	0.10	0.17	0.17	0.06	0.03	0.01	0.33	
1	28.20	28.50	IDB - dark green to black, greasy fracture surfaces, with some clay sized fill, the recovery on the																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
1	29.70	29.85	section is 2.70 and probably the missing meterage is from this soft crumbly zone, all pieces less than 10cm  IDB - dark green to black, greasy fracture surfaces																		
0	29.85	77.51	IF-F - This is a long section of IF-F, it changes characteristics. From 29.85-60m these is a lot of hydrothermal alteration, the bands are either wavy, or completely shears, there is a lot of veining. Where bands are clear they are about 5mm-20mm thick. There is some oxidation (see alterations). There is a small percentage of disseminated pyrite, and some siderite, mostly in the veins. The diabase dyke cuts the unit perpendicular to the banding. From 60-68m, there is much less deformation, the bands are very coherent and regularly alternating with chert. The bands are between 2mm-20mm with 8mm average. There is a fault at 63m and the core for the next 80m is mildly oxidized. From 68-77.51 there is more mudstone beds, there is an increase of pyrite, though only beginning to replace the bands, most the pyrite is in fracture systems and associated with the green mudstone, there is folding around 71m. The banding is becoming less regular, with the addition of mudstone.	104872	29.85	36.00	6.15	41.40	1.03	43.40	2.25	2.73	0.01	0.13	0.06	0.14	0.06	0.01	0.01	0.19	
1	34.04	34.34	IDB - dark green to black, greasy fracture surfaces																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	40.00	40.80	FZ - hard angular clasts, tectonic breccia of iff, beginnings of oxidation, yellowy-orange tarnish, not as deep a color as other oxidized zones.	104873	36.00	42.00	6.00	39.10	0.56	45.20	2.31	1.46	0.29	0.13	0.03	0.14	0.08	0.01	0.01	0.01	0.16
				104874	42.00	48.00	6.00	50.10	0.10	43.70	1.35	0.45	0.01	0.04	0.01	0.06	0.04	0.01	0.01	0.01	0.08
				104875	48.00	54.00	6.00	45.90	0.11	49.40	1.59	0.66	0.01	0.04	0.01	0.07	0.05	0.01	0.01	0.01	0.04
				104877	54.00	60.00	6.00	52.10	2.51	33.80	3.56	2.09	0.01	0.08	0.15	0.12	0.07	0.02	0.01	0.01	0.09
1	54.95	56.27	IDB - grey-green, medium grained. Sharp 45 degree upper contact, one angular chert xenolith. Brittle fractures every 10cm, not smooth ("greasy") but rough fractures.																		
				104878	60.00	66.00	6.00	48.70	0.28	43.00	2.49	1.64	0.05	0.10	0.14	0.17	0.06	0.02	0.01	0.01	0.12
1	60.85	63.00	FZ - IDB - the contact is obscured, but I think there is tectonic brecciation and there is some iff mixed with a weathered IDB at the contact. The IdB is soft, fine to medium grained, there is oxidation on fracture surfaces, and low core recovery, 1.17m are missing from run,																		
				104879	66.00	72.00	6.00	47.00	1.61	37.60	2.79	0.79	0.02	0.26	0.09	0.09	0.17	0.01	0.01	0.01	1.34
				104880	72.00	75.00	3.00	63.20	3.23	23.90	2.23	0.31	0.01	0.18	0.17	0.05	0.15	0.01	0.01	0.01	2.94
1	72.51	73.85	IF-G - mudstone and chert interbedded, cherts are blocked																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
			and folded within the mudstone matrix, pyrite is disseminated in mudstone, and wrapped around cherts, iron content may be zero.																		
0	77.51	79.80	SLC	104881	75.00	78.00	3.00	49.00	2.46	36.90	3.09	1.36	0.04	0.28	0.12	0.07	0.12	0.02	0.01	0.38	
			- this is a transition zone, it is not a sc, but mostly mudstone interlayers with some chert, iron content very low, chert bands are between 10mm-40mm, mudstone, from 30mm-100mm. Iron whisps are in the mudstone layers. They are hard to see because of the colour contrast, there is also po replacement in some of the bands. Siderite and minnesotite present in veining.	104882	78.00	84.00	6.00	56.70	10.90	19.70	2.90	1.27	0.20	1.56	0.47	0.10	0.15	0.02	0.02	0.54	
0	79.80	80.74	SM																		
			- same as above, no iron, interbeds of green mudstone and ever thinning amounts of chert bands. Chert is around 10%.																		
0	80.74	86.64	SAG																		
			- non graphitic. A color gradient from light gray to medium-dark grey. Contains, fine to coarse grained pyrite in the beds. Fractures also have pyrite fill. There is a small fault zone? With a fine-medium grained IDB? It has a greenish grey colour, but very pale, and the density of the rock is very low.																		
1	82.70	82.90	FZ																		
			- Light green-pale gray weathered intrusive, with low density, porous, with chalky weathered fracture planes.																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
1	84.50	84.70	FZ - Light green-pale gray weathered intrusive, with low density																		
0	86.64	102.00	SM - basement sediments, pale green with wisps of yellow, contains abundant carbonate veining, with some siderite, the upper section appears to have portions of conglomerate, and the lower section is finely layered. EOH																		

End of Lithology and Assays ;

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
4.80	6.00	1.20	0.00	0.00	1.20	0.00	1.20	0.00	0.00	0.00	0.00	0.00	oxidized, fractured
6.00	9.00	3.00	0.00	0.00	0.80	0.00	2.77	0.00	0.00	0.00	0.00	0.00	oxidized, fractured
9.00	12.00	3.00	0.00	0.00	1.37	0.00	2.80	0.00	0.00	0.00	0.00	0.00	heavily oxidized, fractured
12.00	15.00	3.00	0.00	0.00	0.53	0.00	2.78	0.00	0.00	0.00	0.00	0.00	oxidized, fractured
15.00	18.00	3.00	0.00	0.00	0.16	0.00	2.86	0.00	0.00	0.00	0.00	0.00	oxidized
18.00	21.00	3.00	0.00	0.00	0.73	0.00	2.92	0.00	0.00	0.00	0.00	0.00	mild oxidized
21.00	24.00	3.00	0.00	0.00	0.47	0.00	2.95	0.00	0.00	0.00	0.00	0.00	mild oxidized
24.00	27.00	3.00	0.00	0.00	0.68	0.00	2.86	0.00	0.00	0.00	0.00	0.00	
27.00	30.00	3.00	0.00	0.00	0.90	0.00	2.90	0.00	0.00	0.00	0.00	0.00	section of weather idd
30.00	33.00	3.00	0.00	0.00	0.26	0.00	3.00	0.00	0.00	0.00	0.00	0.00	coherent
33.00	36.00	3.00	0.00	0.00	0.22	0.00	2.96	0.00	0.00	0.00	0.00	0.00	coherent
36.00	39.00	3.00	0.00	0.00	0.37	0.00	2.95	0.00	0.00	0.00	0.00	0.00	brittle near last 20cm
39.00	42.00	3.00	0.00	0.00	0.85	0.00	2.50	0.00	0.00	0.00	0.00	0.00	oxidized, brittle
42.00	45.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	oxidized fractures
45.00	48.00	3.00	0.00	0.00	0.35	0.00	3.10	0.00	0.00	0.00	0.00	0.00	
48.00	51.00	3.00	0.00	0.00	0.40	0.00	2.93	0.00	0.00	0.00	0.00	0.00	
51.00	54.00	3.00	0.00	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00	0.00	minor oxidation in fractures
54.00	57.00	3.00	0.00	0.00	0.76	0.00	2.95	0.00	0.00	0.00	0.00	0.00	
57.00	60.00	3.00	0.00	0.00	0.57	0.00	2.94	0.00	0.00	0.00	0.00	0.00	
60.00	63.00	3.00	0.00	0.00	1.83	0.00	0.32	0.00	0.00	0.00	0.00	0.00	cnr fail, soft idb intrusive, highly weathered
63.00	66.00	3.00	0.00	0.00	0.81	0.00	3.00	0.00	0.00	0.00	0.00	0.00	highly oxidized near the fault from last rung
66.00	69.00	3.00	0.00	0.00	0.55	0.00	2.92	0.00	0.00	0.00	0.00	0.00	
69.00	72.00	3.00	0.00	0.00	0.33	0.00	2.94	0.00	0.00	0.00	0.00	0.00	
72.00	75.00	3.00	0.00	0.00	0.67	0.00	2.83	0.00	0.00	0.00	0.00	0.00	
75.00	78.00	3.00	0.00	0.00	0.39	0.00	3.05	0.00	0.00	0.00	0.00	0.00	
78.00	81.00	3.00	0.00	0.00	1.50	0.00	3.00	0.00	0.00	0.00	0.00	0.00	block was missing
81.00	84.00	3.00	0.00	0.00	1.96	0.00	2.50	0.00	0.00	0.00	0.00	0.00	fractured

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcu</i>	<i>RQPces&lt;100</i>	<i>talReco</i>	<i>Recovery</i>	<i>Fractures</i>	<i>sacts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
			<i>%</i>		<i>%</i>								
84.00	87.00	3.00	0.00	0.00	1.74	0.00	2.90	0.00	0.00	0.00	0.00	0.00	highly fractured
87.00	90.00	3.00	0.00	0.00	0.56	0.00	2.70	0.00	0.00	0.00	0.00	0.00	basement contact fractured
90.00	93.00	3.00	0.00	0.00	0.25	0.00	2.97	0.00	0.00	0.00	0.00	0.00	
93.00	96.00	3.00	0.00	0.00	0.18	0.00	2.96	0.00	0.00	0.00	0.00	0.00	
96.00	99.00	3.00	0.00	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00	0.00	
99.00	102.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	EOH

End of RQD ; 33 record(s) printed.





*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
4.80	24.00	Oxidized		
39.00	42.00	Oxidized		
63.00	64.00	Oxidized		
68.00	69.00	Oxidized		

End of Alterations ; 4 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
4.80	14.85	SCL			0	10	0	0	0	90	0
23.55	29.85	IF-G			15	0	0	2	20	50	0
29.85	69.00	IF-F			35	0	1	1	1	60	0
69.00	72.51	IF-F			25	0	0	5	0	50	0
72.51	73.85	IF-G			0	0	0	25	0	50	0
73.85	77.51	IF-F			35	0	0	0	0	50	0
77.51	77.80	SCL			10	0	0	0	0	20	0

End of Mineralizations ;        7 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
18.60	120.00	S1	good bedding reading because it is fractured and brecciated, but the displacement seems to be opposite bedding
24.25	60.00	Vcc	siderite vein in a hydrothermally altered zone
29.70	40.00	Cnt	hbx bif/idd
43.00	10.00	VQ	cm thick, similar veins around also thick and low angle, other veins in the area around 60 and extremely oxidized
50.37	45.00	S0	bedding chert/bif
50.37	135.00	S1	displacement fault, 1cm displacement
54.95	150.00	Cnt	bif cross cut by idd perpendicular to banding
60.19	70.00	S0	banding bif
71.85	0.00	S0	banding? Cherts
78.20	75.00	S0	banding bif
84.15	120.00	VQ	coarse grained pyrite fill
84.50	55.00	Cnt	bif/gw? Low density sandstone grey
84.97	60.00	S0	bedding
93.00	45.00	S0	either bedding or foliation
97.00	55.00	Vcc	calcite veining in basement sediments, note there is siderite in some of the basement veins

End of Structures ;                    15 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-09

<b>Easting:</b> 413327.70	<b>Northing:</b> 5333950.40	<b>Elevation:</b> 443.50
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 141.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> orbit garant
<b>Started:</b> 04/12/2011	<b>Finished:</b> 06/12/2011	<b>Logged By:</b> Matthew Halliday
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
30.00	209.00	0.00	-44.80	EZ Shot	Inactive
141.00	197.80	0.00	-41.60	EZ Shot	Active

81.00	241.30	0.00	-43.60	EZ Shot	Inactive
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End of Deviations ; 3 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	0.00	20.80	OVB																		
0	20.80	59.05	IF-F - mild oxidation, the core grades from dark grey (with reddish jasper till 31) to a lighter gray. The bedding changes through low angles, and has some folding, and jointing across beds. Some of the chert has disseminated magnetite or thin layers of magnetite, there are some zones, where the magnetite is a bit coarser, still finegrained. Very small amounts of pyrite in some of the bands or veins, and also minnesotite and siderite in some of the veins. Near the end of the unit is a fault zone and it end in intrusive, the fault zone has higher oxidation and tension gashes in the magnetite bands. The magnetite bands are on average 5mm-10mm in thickness.	104984	20.80	27.00	6.20	40.70	1.68	51.20	1.72	1.42	0.56	0.05	0.09	0.18	0.04	0.01	0.01	0.01	0.14
1	23.94	42.73	IDB - green with slick fracture surfaces (black) well veined, some fractures oxidized with rust staining.	104985	27.00	33.00	6.00	49.40	0.35	45.90	1.34	0.98	0.06	0.04	0.02	0.08	0.03	0.01	0.01	0.03	
1	30.33	30.57	IDB - grey medium grained, sharp contacts, cross cut iron formation																		
				104986	33.00	39.00	6.00	46.90	0.10	50.30	1.50	0.24	0.01	0.05	0.01	0.08	0.04	0.01	0.01	0.05	
				104987	39.00	45.00	6.00	52.00	0.39	43.50	1.69	0.44	0.01	0.07	0.07	0.08	0.04	0.02	0.01	0.06	
1	39.55	39.58	IDB - thin, dark green, oxidized fracture surface																		
				104988	45.00	51.00	6.00	50.30	0.03	47.40	1.24	0.23	0.01	0.03	0.01	0.08	0.03	0.01	0.01	0.03	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
1	56.75	57.20	FZ - well oxidized iron formation, brittle, and porous, mostly chert, iron and rust	104989	51.00	54.00	3.00	49.70	0.11	45.70	1.50	0.43	0.01	0.05	0.01	0.08	0.03	0.01	0.01	0.08
				104990	54.00	59.05	5.05	48.90	0.32	46.20	1.14	0.22	0.01	0.04	0.01	0.08	0.04	0.01	0.01	0.01
0	59.05	67.95	IDB - light green to chalky white, has fragments of iron formation within it, and muds, mild oxidation in parts and some pyritization, fine to medium (coarse) grained pyrites, mostly near the beginning, weathered fracture surfaces are black and soapy,	104991	59.05	63.50	4.45	56.80	10.10	19.90	2.20	1.93	3.45	0.30	0.43	0.26	0.09	0.02	0.01	0.07
				104992	63.50	67.95	4.45	57.50	14.10	8.23	3.53	2.95	2.94	2.14	0.83	0.50	0.10	0.02	0.01	0.01
0	67.95	71.65	iff - mostly low angle iff jointed and veined, good core recovery, joints have been well cemented, the core is dark to medium gray. The magnetite bands are on average 15mm-25mm thick. There is some fine grained pyrites in the fractures, aswell as minnesotite, anchorite, and some siderite.	104993	67.95	71.65	3.70	49.80	0.66	40.10	1.85	1.04	0.04	0.17	0.03	0.11	0.07	0.01	0.01	0.21
0	71.65	79.85	IDB - whitish grey core with rusty oxidized zones, there is a fault in the unit and some chert, the chert has high siderite replacement along with minnesotite and rust, trace pyrite. The intrusive has slick black weathered joints, to rough weathered joints, the recovery and rqd is low	104994	71.65	75.00	3.35	57.40	15.70	11.40	3.67	1.18	2.33	2.25	0.76	0.43	0.09	0.02	0.02	0.00
				104995	75.00	79.85	4.85	61.80	7.96	19.60	2.79	0.38	0.14	1.08	0.40	0.23	0.08	0.01	0.02	0.02
0	79.85	92.78	IF-F - medium-dark grey, low angle banding, magnetite between 8mm-30mm on average. Lots of folding, and some jointing, there are zones of minnesotite	104996	79.85	85.00	5.15	42.10	0.16	43.80	2.83	1.07	0.01	0.05	0.01	0.07	0.08	0.01	0.01	0.35
				104997	85.00	91.00	6.00	42.10	0.18	49.70	2.59	0.56	0.01	0.08	0.01	0.10	0.06	0.01	0.01	0.22
				104998	91.00	96.55	5.55	49.10	3.57	34.40	4.27	2.45	0.23	0.29	0.21	0.18	0.07	0.03	0.01	0.63

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
			replacement and also, siderite veining, and some pyrite replacement. Most of the minnesotite replacement is accompanied by thin siderite replacement along bedding boundaries.																		
0	92.78	102.00	IDB - whitish grey core with . The intrusive has slick black weathered joints, to rough weathered joints, the rqd is low. Some disseminated pyrite,																		
1	94.30	96.55	IF-F - jointed (causing displacement) beds of chert and mag, bedding angle gradually changing with joints, pyrite in some of the beds, and building up on joint planes.																		
				104999	96.55	102.00	5.45	51.30	13.70	9.43	5.92	5.77	3.34	0.77	0.62	0.51	0.08	0.02	0.02	0.36	
0	102.00	113.50	IF-F - starts off white and grey then turns into medium grey as the chert darkens. Mostly low angle bedding, lots of jointing and small veins disturbing the bedding. Some tension gashes pulling the bedding apart, crosses mag and chert, filled often with siderite, minnesotite, and pyrite, there is a lot of thin minnesotite and siderite replacement along the bedding surfaces. The the magnetite thickness ranges from about 8mm- 30mm.	105000 105001	102.00 108.00	108.00 113.50	6.00 5.50	49.00 43.00	0.65 0.21	39.60 46.70	2.72 1.88	1.19 0.84	0.01 0.01	0.14 0.07	0.04 0.01	0.11 0.14	0.06 0.04	0.01 0.02	0.01 0.01	0.39 0.14	
0	113.50	122.45	SC - similar to last unit, but loss of iron, still low angle, the presence of a matte grey chert makes it look like iron, there is some pyritization of this chert aswell as some	105002 105003	113.50 117.00	117.00 122.45	3.50 5.45	41.00 42.30	0.42 0.49	36.30 35.70	2.77 2.64	0.70 0.64	0.02 0.01	0.06 0.01	0.03 0.03	0.12 0.10	0.08 0.07	0.01 0.01	0.01 0.01	0.24 0.26	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	122.45	133.20	layeres of minnesotite/siderite present, the siderite is fine to medium grained, pyrite minn are both fine grained, IF-H - mildly fractures core, with more porous zones, some mild brecciation with very small angular clasts, likely hydrothermal, the core is light grey to creamy gray. Alternating bands of chert, magnetite, siderite, core angles are more mid range, 40ish. Some of the magnetite bands have nodules of which appear to be chert, (I don't know why, they appear to be alligned with bedding, nearing the basement contact the core becomes more brittle and has more hydrothermal alteration. And increased siderite content. Small amounts of fine grained disseminated pyrite throughout, some clusters.	105004 105005 105006	122.45 128.45 133.00	128.45 133.00 139.00	6.00 4.55 6.00	43.20 42.30 53.10	1.61 0.19 13.10	37.10 35.90 6.71	2.65 2.20 3.89	0.61 0.49 7.59	0.16 0.01 2.84	0.05 0.01 1.59	0.07 0.01 0.51	0.12 0.11 0.13	0.06 0.08 0.12	0.01 0.01 0.04	0.01 0.01 0.02	0.07 0.40 0.08	
0	133.20	141.00	SM - basement sediments, green-yellow light coloured core, foliation present, carb present, calcite veining.																		

End of Lithology and Assays ;



*Satellite database created from Rogue-**RadioHill** DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talRecover	Recovery	Fractures	sacts/Leng	Veins	ains/Leng	Angle	Description
			%	%	%	%	%						
21.00	24.00	3.00	0.00	0.00	0.34	0.00	1.76	0.00	0.00	0.00	0.00	0.00	There is casing to 21,
24.00	27.00	3.00	0.00	0.00	0.53	0.00	2.98	0.00	0.00	0.00	0.00	0.00	
27.00	30.00	3.00	0.00	0.00	0.34	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
30.00	33.00	3.00	0.00	0.00	0.18	0.00	3.03	0.00	0.00	0.00	0.00	0.00	
33.00	36.00	3.00	0.00	0.00	0.00	0.00	2.80	0.00	0.00	0.00	0.00	0.00	43cm of mechanical breaks <100mm,
36.00	39.00	3.00	0.00	0.00	0.00	0.00	2.85	0.00	0.00	0.00	0.00	0.00	103cm of mechanical breaks <100mm, bit needs to be replaced, corespun
39.00	42.00	3.00	0.00	0.00	0.27	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
42.00	45.00	3.00	0.00	0.00	0.30	0.00	3.12	0.00	0.00	0.00	0.00	0.00	
45.00	48.00	3.00	0.00	0.00	0.10	0.00	3.01	0.00	0.00	0.00	0.00	0.00	
48.00	51.00	3.00	0.00	0.00	0.22	0.00	2.96	0.00	0.00	0.00	0.00	0.00	
51.00	54.00	3.00	0.00	0.00	0.10	0.00	3.03	0.00	0.00	0.00	0.00	0.00	
54.00	57.00	3.00	0.00	0.00	0.25	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
57.00	60.00	3.00	0.00	0.00	1.00	0.00	2.55	0.00	0.00	0.00	0.00	0.00	oxidized fault and some intrusive
60.00	63.00	3.00	0.00	0.00	1.13	0.00	3.00	0.00	0.00	0.00	0.00	0.00	intrusive
63.00	66.00	3.00	0.00	0.00	0.90	0.00	2.63	0.00	0.00	0.00	0.00	0.00	soft intrusive
66.00	69.00	3.00	0.00	0.00	1.30	0.00	2.85	0.00	0.00	0.00	0.00	0.00	soft intrusive back to iron
69.00	72.00	3.00	0.00	0.00	0.50	0.00	2.91	0.00	0.00	0.00	0.00	0.00	intrusive starting again
72.00	75.00	3.00	0.00	0.00	1.70	0.00	2.84	0.00	0.00	0.00	0.00	0.00	mildly weathered intrusive
75.00	78.00	3.00	0.00	0.00	1.50	0.00	1.75	0.00	0.00	0.00	0.00	0.00	intrusive and fault
78.00	81.00	3.00	0.00	0.00	1.30	0.00	2.85	0.00	0.00	0.00	0.00	0.00	intrusive to iron
81.00	84.00	3.00	0.00	0.00	0.45	0.00	3.05	0.00	0.00	0.00	0.00	0.00	
84.00	87.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
87.00	90.00	3.00	0.00	0.00	0.00	0.00	2.98	0.00	0.00	0.00	0.00	0.00	
90.00	93.00	3.00	0.00	0.00	0.28	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
93.00	96.00	3.00	0.00	0.00	1.15	0.00	2.80	0.00	0.00	0.00	0.00	0.00	intrusive
96.00	99.00	3.00	0.00	0.00	1.25	0.00	2.98	0.00	0.00	0.00	0.00	0.00	intrusive

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
99.00	102.00	3.00	0.00	0.00	0.78	0.00	2.81	0.00	0.00	0.00	0.00	0.00	intrusive
102.00	105.00	3.00	0.00	0.00	0.32	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
105.00	108.00	3.00	0.00	0.00	0.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
108.00	111.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
111.00	114.00	3.00	0.00	0.00	0.88	0.00	2.83	0.00	0.00	0.00	0.00	0.00	
114.00	117.00	3.00	0.00	0.00	1.20	0.00	2.90	0.00	0.00	0.00	0.00	0.00	brittle fractures, mild oxidation
117.00	120.00	3.00	0.00	0.00	0.28	0.00	2.95	0.00	0.00	0.00	0.00	0.00	
120.00	123.00	3.00	0.00	0.00	0.43	0.00	2.97	0.00	0.00	0.00	0.00	0.00	
123.00	126.00	3.00	0.00	0.00	0.60	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
126.00	129.00	3.00	0.00	0.00	0.82	0.00	2.73	0.00	0.00	0.00	0.00	0.00	intrusive
129.00	132.00	3.00	0.00	0.00	1.20	0.00	2.94	0.00	0.00	0.00	0.00	0.00	mildly oxidized joints, and brittle fractures, increase in sid and tan ms, nearing contaqct with basement
132.00	135.00	3.00	0.00	0.00	1.60	0.00	2.63	0.00	0.00	0.00	0.00	0.00	same as last, basement sedisstart in middle of rung
135.00	138.00	3.00	0.00	0.00	0.20	0.00	3.04	0.00	0.00	0.00	0.00	0.00	
138.00	141.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	EOH

End of RQD ; 40 record(s) printed.





*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
21.00	35.00	minor oxidation		
52.00	56.00	mild oxidation		
56.80	60.00	Oxidized		
72.00	81.00	Oxidized		

End of Alterations ; 4 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
20.80	36.00	IF-F			45	0	0	0	0	55	0
36.00	59.05	IF-F			40	0	0	2	0	60	0
61.00	63.00	IF-F			30	0	0	0	0	70	0
67.95	71.65	IF-F			35	0	0	0	5	60	0
79.85	92.78	IF-F			35	0	0	2	5	55	0
94.30	96.35	IF-F			30	0	0	5	5	60	0
102.00	113.50	IF-F			35	0	0	2	8	55	0
122.45	133.00	IF-H			10	0	0	10	20	60	0

End of Mineralizations ; 8 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
22.00	10.00	S0	bedding (jap+mag)
23.94	20.00	Cnt	uneven contact iff-idd, lower contact is a perfect flat 30degrees
30.15	30.00	S0	bedding
41.00	15.00	S0	bedding
52.00	30.00	S0	bedding (folding)
59.05	90.00	Cnt	
67.95	60.00	Cnt	
83.70	5.00	S0	0-10, wavy
87.30	40.00	S0	bedding
92.78	80.00	Cnt	iff/idb
102.30	20.00	S0	folded 20/150
102.33	90.00	Flt	displacement
111.50	10.00	S0	jointed bedding
121.00	20.00	S0	BEDDING
126.00	40.00	S0	bedding
133.20	70.00	Cnt	basement contact
136.00	60.00	S1	foliation
140.00	50.00	S1	foliation

End of Structures ;            18 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-10

<b>Easting:</b> 412423.20	<b>Northing:</b> 5334075.20	<b>Elevation:</b> 422.50
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 198.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> Orbit Garant
<b>Started:</b> 29/10/2011	<b>Finished:</b> 04/11/2011	<b>Logged By:</b> Matthew Halliday
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
18.00	248.00	0.00	-44.40	EZ Shot	Inactive
102.00	205.10	0.00	-44.70	EZ Shot	Active
198.00	202.80	0.00	-43.10	EZ Shot	Active

51.00	219.10	0.00	-44.40	EZ Shot	Inactive
150.00	208.00	0.00	-43.80	EZ Shot	Inactive

End of Deviations ; 5 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	0.00	9.00	OVB																		
0	9.00	80.00	IF-F - IF-F - interlayered chert and banded iron medium gray, bands dip from subvertical to horizontal, lots of folding. 6 small ldb intrusions all less than a meter. Many of the bands have undergone tensile stress, and a disjointed blocky. Most vein fill fractures are at least 90 from bedding. Not rich in sulphides, when sulphides are present, onlu pyrites, fine grained. Some disseminated, but mostly associated with fractures and fluids.very little siderite	104776 104777 104778	9.00 15.00 18.00	15.00 18.00 22.87	6.00 3.00 4.87	52.20 51.40 50.20	0.23 0.26 0.70	42.00 41.00 41.60	2.04 2.03 2.18	1.06 1.10 1.44	0.01 0.02 0.03	0.11 0.12 0.23	0.01 0.01 0.03	0.15 0.16 0.13	0.06 0.06 0.09	0.01 0.01 0.01	0.01 0.01 0.01	0.16 0.26 0.35	
1	22.87	23.57	IDB - dark green, black on fresh surface. No observable textures.	104779	22.87	27.12	4.25	52.80	4.30	31.20	3.00	2.87	0.02	0.19	0.22	0.30	0.07	0.01	0.01	0.10	
1	24.87	25.12	IDB - dark green, black on fresh surface. No observable textures.																		
1	26.60	27.12	IDB - dark green, black on fresh surface. No observable textures.																		
				104780	27.12	33.00	5.88	50.90	0.13	43.00	2.00	1.16	0.01	0.06	0.01	0.13	0.05	0.01	0.01	0.06	
				104781	33.00	39.00	6.00	51.00	0.72	44.10	2.26	1.12	0.01	0.09	0.03	0.15	0.04	0.01	0.01	0.16	
1	36.74	36.94	IDB - dark green, black on fresh surface. No observable textures.																		
				104782	39.00	45.00	6.00	52.70	0.52	40.80	2.34	1.66	0.01	0.10	0.02	0.14	0.04	0.01	0.01	0.24	
				104783	45.00	51.00	6.00	51.70	0.15	43.80	1.70	1.08	0.01	0.08	0.01	0.16	0.04	0.01	0.01	0.08	
				104784	51.00	57.00	6.00	45.90	0.10	49.20	1.59	1.05	0.01	0.06	0.01	0.14	0.04	0.01	0.01	0.08	



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
1	75.90	76.10	IDB - dark green, black on fresh surface. No observable textures.	104786	57.00	63.00	6.00	50.10	0.17	44.20	1.85	1.22	0.01	0.08	0.01	0.13	0.05	0.01	0.01	0.18
				104787	63.00	69.00	6.00	47.20	0.26	42.40	1.83	1.37	0.03	0.09	0.01	0.12	0.04	0.01	0.01	0.18
				104788	69.00	75.00	6.00	45.70	0.27	44.20	1.92	1.36	0.03	0.10	0.01	0.17	0.04	0.01	0.01	0.08
				104789	75.00	80.00	5.00	46.30	0.90	42.50	2.03	1.17	0.06	0.16	0.04	0.12	0.05	0.01	0.01	0.22
0	80.00	90.30	SLC - Lean chert, white to greenish gray, chloritization present, hydrothermal mini fractures and chloritization around iron bands, bands being replaced, some fine siderite , magnetite content around 10%.	104790	80.00	85.59	5.59	65.30	1.13	23.30	1.93	0.73	0.05	0.19	0.05	0.09	0.11	0.01	0.01	0.53
				104791	85.59	90.30	4.71	63.00	0.94	24.80	2.15	0.97	0.07	0.17	0.03	0.16	0.10	0.01	0.01	0.46
0	90.30	101.92	IF-F - IFF with the beginning of minnesotite replacement and sulphide replacemen. Bands are hard to see, mostly jointed and deformed. Dark grey to grey green in colour. Pyrite and po replacement, siderite in small veins. Sulphides are fine grained, siderite is fine to medium grained.	104792	90.30	96.00	5.70	41.00	0.17	50.40	1.96	1.88	0.02	0.07	0.01	0.15	0.05	0.01	0.01	0.02
				104794	96.00	101.92	5.92	48.80	0.73	43.60	2.05	1.30	0.11	0.27	0.03	0.14	0.06	0.01	0.01	0.33
0	101.92	104.63	IF-G - po, py, minn, sid replacing magnetite and chert. Po is all fine grained, py ranges from fine to medium. Minn is fine grained, siderite is fine to medium grained. Bands are sub vertical, iron bands are between 2mm-20mm. Color contrast is high, from white, to dull green, to dark grey. Iron content is around 10-15%.	104795	101.92	104.37	2.45	48.00	0.48	39.10	2.92	1.15	0.04	0.15	0.03	0.05	0.24	0.01	0.01	3.23
				104796	104.37	109.65	5.28	54.30	0.14	37.70	3.55	1.59	0.01	0.07	0.01	0.14	0.14	0.01	0.01	0.01
0	104.63	109.65	IF-F - alternating bands of chert, mag, with minn, sub vertical bands, between 2mm-																	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
0	109.65	116.75	20mm. Medium grey with green tinge. IF-H - white and greenish with darkgray and blkack, high amounts of white chert. These section looks like an altered lean chert. With an abundant amount of siderite, pyrite, po, minn. Abundant small quartz veins with sulphides and sid/min. all minerals are fine grained, with exception pyrite is fine to medium grain. Sulphides are mixed together. Po is replacing parts of the iron, iron percentage seems to be above 15%.	104797 104798	109.65 114.00	114.00 116.75	4.35 2.75	56.90 53.30	0.29 0.39	34.70 34.00	3.19 2.67	0.66 1.12	0.02 0.04	0.12 0.22	0.01 0.01	0.08 0.05	0.24 0.21	0.01 0.01	0.01 0.01	2.10 3.60
0	116.75	125.50	IF-F - darkgrey, magnetite and chert bands .5cm-3cm for iron, upto 6cm for chert. Banded to non banded. Contact with last unit brecciated. Pyrite is the dominant secondary mineral. Starting replacement of iron along boundaries.	104800 104801	116.75 120.00	120.00 125.50	3.25 5.50	47.70 48.70	0.20 0.19	45.80 47.20	2.75 2.19	1.31 1.02	0.02 0.01	0.19 0.11	0.01 0.01	0.09 0.09	0.06 0.04	0.01 0.01	0.01 0.01	0.54 0.74
0	125.50	133.90	IF-H - light to medium grey. Banded to hydrothemally brecciated. Bands being relaced by siderite, almost like nodules of siderite. Siderite associated with small veins. dark green, black on fresh surface. No observable textures.pyrite also associated with replacement and veins, but much lesser. Minnesotite is present, also small amounts of fined grained po/cpy.	104802 104803	125.50 129.00	129.00 133.90	3.50 4.90	44.90 45.10	0.07 0.07	49.80 46.50	2.01 1.80	1.39 2.25	0.01 0.01	0.06 0.03	0.01 0.01	0.09 0.08	0.02 0.02	0.01 0.01	0.01 0.01	0.33 0.21
0	133.90	142.25	IF-G - similar to last unit, predominant now is the pyrite, no cpy. Some siderite and minnesotite sub zones.	104804 104805	133.90 138.00	138.00 142.25	4.10 4.25	43.20 48.10	0.08 0.09	49.50 46.30	2.01 1.78	1.91 1.44	0.01 0.01	0.05 0.05	0.01 0.01	0.08 0.09	0.03 0.02	0.01 0.01	0.01 0.01	1.11 0.78

## Satellite database created from Rogue-RadioHill DDH2011.accdb

### Lithology and Assays:

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
0	142.25	180.06	IF-H - [is this if-h or if-f - are the green bands minnesotite replacement or epidotization. I was talking with kevin and now I am a bit confused. - Alternating bands of chert/min/iron mostly subvertical, from 1mm-1cm. Fine to medium grained pyrites present, dissmenitated and some replacements. However most of the iron bands look clean. Very small amounts of siderite associated with veining. Core is crey with green tinge. Siderite increases downhole.	104806 104807 104808 104809 104810 104811 104812	142.25 147.00 153.00 159.00 165.00 171.00 177.00	147.00 153.00 159.00 165.00 171.00 177.00 180.06	4.75 6.00 6.00 6.00 6.00 6.00 3.06	48.90 50.60 50.40 51.40 52.60 46.20 48.40	0.11 0.21 0.16 0.32 0.32 0.28 0.92	44.00 43.60 44.90 43.70 41.10 45.60 38.50	2.49 2.38 2.47 2.56 2.11 3.26 3.55	2.29 1.88 0.98 1.10 0.87 1.17 1.48	0.01 0.02 0.01 0.02 0.02 0.01 0.02	0.06 0.09 0.08 0.13 0.11 0.10 0.09	0.01 0.02 0.01 0.01 0.01 0.02 0.04	0.07 0.06 0.09 0.13 0.09 0.08 0.06	0.03 0.04 0.03 0.08 0.07 0.10 0.15	0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.38 0.49 0.05 0.26 0.26 0.44 0.48
0	180.06	187.73	SLC - This zone could still be if-h or if-g , there is an increase in sulphide and a decrease in ironbands. Fine grained pyrite and siderite in veins. Mudtone interlayered now with cherts and iron.	104813	180.06	184.73	4.67	57.00	1.93	21.90	3.30	3.91	0.35	0.04	0.09	0.06	0.21	0.01	0.01	1.13
1	181.12	181.62	FZ - filled with mudstone, carbonates, sulphides, greenish colour, sulphides and carbonate medium grained. -caused problems for drilling, though the rock is intact, not fresh fault zone with gouge.																	
0	184.73	187.52	SC - interlayered cheres and mudtones, no iron, very small amount of siderite associated with veins, fine grained pyrite associated with quartz	104814	184.73	187.52	2.79	51.80	5.40	24.80	3.48	2.92	0.01	0.01	0.23	0.08	0.15	0.01	0.01	0.94
0	187.52	189.20	SAG - interbeded slate that grades in from the last unit, dark grey in color, fine interlayered beds 70 angle. Contains less	104815	187.52	192.00	4.48	60.50	15.90	6.62	2.16	3.56	3.24	1.68	0.58	0.13	0.07	0.02	0.02	0.23

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
0	189.20	198.00	SM - light grey to light yellowy grey. Fine grey mudstone, lots of carbonate veining. The bulk is very fine grained, it coarsens for small intervals. Fine to coarse grained pyrite associated with fractures. than 5% disseminated pyrite.																		

End of Lithology and Assays ;



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
8.36	9.00	0.64	0.00	0.00	0.12	0.00	0.64	0.00	0.00	0.00	0.00	0.00	
9.00	12.00	3.00	0.00	0.00	0.59	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
12.00	15.00	3.00	0.00	0.00	0.22	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
15.00	18.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
18.00	21.00	3.00	0.00	0.00	0.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
21.00	24.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
24.00	27.00	3.00	0.00	0.00	0.37	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
27.00	30.00	3.00	0.00	0.00	0.03	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
30.00	33.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
33.00	36.00	3.00	0.00	0.00	0.23	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
36.00	39.00	3.00	0.00	0.00	0.18	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
39.00	42.00	3.00	0.00	0.00	0.03	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
42.00	45.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
45.00	48.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
48.00	51.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
51.00	54.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
54.00	57.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
57.00	60.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
60.00	63.00	3.00	0.00	0.00	0.15	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
63.00	66.00	3.00	0.00	0.00	0.28	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
66.00	69.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
69.00	72.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
72.00	75.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
75.00	78.00	3.00	0.00	0.00	0.36	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
78.00	81.00	3.00	0.00	0.00	1.04	0.00	2.70	0.00	0.00	0.00	0.00	0.00	
81.00	84.00	3.00	0.00	0.00	0.70	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
84.00	87.00	3.00	0.00	0.00	2.02	0.00	2.80	0.00	0.00	0.00	0.00	0.00	
87.00	90.00	3.00	0.00	0.00	0.72	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
90.00	93.00	3.00	0.00	0.00	0.16	0.00	3.00	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcul</i>	<i>RQPces&lt;100</i>	<i>talRecover</i>	<i>Recovery</i>	<i>Fractures</i>	<i>acts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
			%		%								
93.00	96.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
96.00	99.00	3.00	0.00	0.00	0.13	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
99.00	102.00	3.00	0.00	0.00	0.08	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
102.00	105.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
105.00	108.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
108.00	111.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
111.00	114.00	3.00	0.00	0.00	0.09	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
114.00	117.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
117.00	120.00	3.00	0.00	0.00	0.29	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
120.00	123.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
123.00	126.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
126.00	129.00	3.00	0.00	0.00	0.17	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
129.00	132.00	3.00	0.00	0.00	0.05	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
132.00	135.00	3.00	0.00	0.00	0.06	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
135.00	138.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
138.00	141.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
141.00	144.00	3.00	0.00	0.00	0.14	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
144.00	147.00	3.00	0.00	0.00	0.12	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
147.00	150.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
150.00	153.00	3.00	0.00	0.00	0.09	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
153.00	156.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
156.00	159.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
159.00	162.00	3.00	0.00	0.00	0.12	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
162.00	165.00	3.00	0.00	0.00	0.32	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
165.00	168.00	3.00	0.00	0.00	0.26	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
168.00	171.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
171.00	174.00	3.00	0.00	0.00	0.09	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
174.00	177.00	3.00	0.00	0.00	0.11	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
177.00	180.00	3.00	0.00	0.00	0.23	0.00	3.00	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcu</i>	<i>RQPces&lt;100</i>	<i>tal</i>	<i>Recove</i>	<i>Recovery</i>	<i>Fractures</i>	<i>sacts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
				%		%								
180.00	183.00	3.00	0.00	0.00	1.35	0.00	2.72	0.00	0.00	0.00	0.00	0.00	0.00	This was part of the night shift, corebarrel jammed, they had trouble collecting this run, and subsequent runs uptop 189, though the recoveries are better for the latter
183.00	186.00	3.00	0.00	0.00	0.33	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	
186.00	189.00	3.00	0.00	0.00	0.94	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	
189.00	192.00	3.00	0.00	0.00	0.43	0.00	3.07	0.00	0.00	0.00	0.00	0.00	0.00	
192.00	195.00	3.00	0.00	0.00	0.00	0.00	3.15	0.00	0.00	0.00	0.00	0.00	0.00	
195.00	198.00	3.00	0.00	0.00	0.17	0.00	2.90	0.00	0.00	0.00	0.00	0.00	0.00	EOH

End of RQD ; 64 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
9.00	20.00	IF-F			40	0	0	1	0	55	0
20.00	54.00	IF-F			25	0	0	1	1	70	0
54.00	55.00	IF-F			40	0	0	0	0	60	0
55.00	80.00	IF-F			35	0	0	2	1	60	0
80.00	90.30	SLC			10	0	0	2	5	70	0
90.30	101.92	IF-F			25	0	2	2	1	60	0
101.92	104.63	IF-G			20	0	10	5	1	60	0
104.63	109.65	IF-F			30	0	1	2	1	60	0
109.65	116.75	IF-H			10	0	10	8	10	60	0
116.75	125.50	IF-F			30	0	5	5	0	60	0
125.50	133.90	IF-H			35	0	2	3	10	50	0
133.90	142.25	IF-G			30	0	1	10	4	50	0
142.25	165.00	IF-H			40	0	0	2	2	50	0
165.00	180.06	IF-H			35	0	0	5	8	50	0
180.06	184.73	SCL			10	0	0	6	6	50	0

End of Mineralizations ; 15 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
13.00	70.00	S0	
22.04	20.00	S1	chert
22.87	30.00	Cnt	BI and ldb {upper}
23.57	15.00	Cnt	idb and bi {lower}
32.22	15.00	S0	
35.50	70.00	VQ	
43.00	0.00	S0	
52.06	25.00	S0	
52.06	150.00	VQ	
66.43	30.00	S0	
72.70	160.00	S1	fault fracture filled with host material, IF-F
72.80	15.00	S0	iron band
82.00	60.00	S0	ib
91.30	20.00	VQ	with siderite
92.40	25.00	S0	ib
107.03	70.00	S0	
118.00	25.00	S0	on disjointed ib
118.00	50.00	VQ	quartz vein with siderite
126.56	20.00	S0	ib/min
138.56	45.00	VQ	quartz vein with siderite
145.45	70.00	S0	ib
155.77	70.00	S0	ib
167.25	30.00	S1	ib
177.30	65.00	S0	ib
185.85	60.00	S0	chert/ms layers

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Structures:*

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
193.45	70.00	S0	argylitic unit
194.25	40.00	Vcc	basement filled with vcc veining

End of Structures ;            27 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-**RadioHill** DDH2011.accdb*

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**Hole:** RH-11-11

<b>Eastings:</b> 412338.10	<b>Northing:</b> 5334223.80	<b>Elevation:</b> 415.30
<b>AltEastings:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 330.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> Orbit Garant
<b>Started:</b> 17/10/2011	<b>Finished:</b> 24/10/2011	<b>Logged By:</b> Matt Halliday
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
21.00	14.50	0.00	-43.20	EZ Shot	Inactive
150.00	180.10	0.00	-43.30	EZ Shot	Active
252.00	212.80	0.00	-42.80	EZ Shot	Inactive
330.00	215.40	0.00	-43.00	EZ Shot	Inactive

102.00	188.70	0.00	-43.30	EZ Shot	Active
201.00	212.50	0.00	-43.10	EZ Shot	Inactive
300.00	201.00	0.00	-42.90	EZ Shot	Active

End of Deviations ; 7 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
0	0.00	12.00	OVB																		
0	12.00	35.60	SAG - Dark grey-black graphitic shale with nodules of pyrite to fine grained pyrite disseminate along foliation. Shorter sections of coarser gray shale with pyrite along foliation. Unit is highly fractures and contains small level 1 sections of sandstone. And chert fragments.																		
1	12.00	13.00	SM																		
1	17.93	18.70	SG - coarse medium gray graywacke with medium grained disseminated pyrite																		
1	20.90	21.30	SG - coarse medium gray graywacke with medium grained disseminated pyrite																		
1	27.50	28.50	SC - short brittle and weathered section of sedimentary cherts with mustone matrix																		
0	35.60	37.80	VQ - Highly fractured quartz vein, disseminated fine to coarse grained pyrite. The quartz is both fine to coarse grained. The vein is porous and contains a talc in some of the pours.																		
0	37.80	39.00	SC - alternating bands of chert and mudstone, chloritization of the mud, a small sideite vein coarse grained, trace amounts of	144475	37.80	42.66	4.86	53.00	1.76	30.10	2.53	1.73	0.01	0.04	0.07	0.16	0.06	0.01	0.01	0.53	



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	39.00	42.66	pyrite SLC - Alternating bands of chert, mudstone and magnetite,, most magnetite bands < 1cm upto 5 cm. Some coarse grained siderite veins oposite to bedding, trace amounts of fine grained pyrite in fractures.																		
0	42.66	54.00	IF-F - alternating bands of chert and magnetite, with sections subsections more brecciated. Iron content is around 20-35% A few bands of siderite fine grained, and on cross cutting vein coarse. Trace amounts of pyrite, localized where deformation is highest. There is brittle mechanic sections alont this section.	144476 144477	42.66 48.00	48.00 54.00	5.34 6.00	47.50 47.90	1.50 1.13	36.70 36.30	2.70 2.63	1.63 1.09	0.04 0.02	0.17 0.04	0.06 0.04	0.17 0.18	0.05 0.06	0.01 0.01	0.01 0.01	0.29 0.66	
0	54.00	57.00	IDD - Highly fractured intrusive, contains quartz, it is hard where coherent and soft near fractures. Contains fine to coarse grained pyrites parralel to deformation, [poor recovery of core!]	144478	54.00	60.00	6.00	61.70	9.57	15.80	1.78	0.28	0.46	1.16	0.41	0.12	0.16	0.03	0.01	2.26	
0	57.00	60.00	SM - light grey to light green, sedimentary mudstone, broken up, [lowe recover of core!]																		
0	60.00	77.25	SG - medium gray, graywacke, massive, highly fractured, poor recovery of the core. Fracture fill is decomposed and soft clay material, poorly cemented.																		
0	77.25	108.35	HBX - mostly silicious, lots of veining, light grey																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
0	108.35	162.61	<p>to medium gray. Section of high deformation. Some clasts of mudstone. Multiple degrees of structures. Very few sulphides.</p> <p>IF-G - Highly deformed, many of the deformations are at low angle. Bands of chert and chloritized mudstone, with small bands of magnetite. Magnetite bands range from about 1cm to 4 cm. Due to the low angle, the other units are hard to quantify, Deformation varies from s folds, to brittle fractured bands to coherent bands. Between 108.35 and 114, there is predominantly pyrite and po replacement, with a fine grained massive pyrite section of 14cm, and po along deformation, small amount of coarse siderite. 114-120 is a SC with chloritization and predominately po fine grained, and small amounts of disseminated pyrite. 124.15-144.50 intense low angle alterations, loaded with fine grain Po, A few fine grained pyrite veins, and small sections of fine grained pyrite interspersed with the Po. Po &gt; 15%, lots of chloritization, All the deformation is very fluid here not brittle. Some of the pyrites are coarse grained. 144.50-153 less chloritization and more silification, deformation becomes more brittle. Band are higher angle and jointed. We see more magnetite bands here - however &lt;10%. Much less sulphide than previous section, still dominant is Po along deformation a few siderite and pyrite bands, very low percent.</p>																		
1	120.55	124.14	<p>SLC - around 10% magnetite band.</p>																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
			The band are coherent and then highly deformed and coherent again. Chloritization is present, though there is few sulfide replacements. There is a small siderite vein.	144479	156.61	162.61	6.00	63.90	2.45	23.70	1.90	0.40	0.13	0.33	0.12	0.05	0.08	0.02	0.01	3.06
0	162.61	165.73	IF-F - The beginning of the Iron formation, grades from coherent vertical bands, ranging from half cm to 2cm width, alternating with chert and silicified material, then grades to intend deformation and higher silicification	144480	162.61	165.73	3.12	45.00	0.26	41.00	1.90	1.89	0.05	0.10	0.01	0.17	0.06	0.01	0.01	0.40
0	165.73	181.75	IF-E - Low angle iron bands, intercalated with silicified material, bed thickness are hard to determine due to the low angle. I would guess closely space between 1mm and 1.5cm. Many of the bands are jointed	144481	165.73	171.00	5.27	50.30	0.50	40.20	1.95	1.31	0.07	0.21	0.02	0.14	0.04	0.01	0.01	0.36
1	171.00	171.95	TBX - around 20% iron, but much less than the surrounding pieces. Broken pieces of chert and iron bands, grades into 40cm of poorly sorted angular clasts of chert and magnetite, with a fine grained matrix. Minnesotite and Siderite present, fine - medium grained	144483	171.00	171.95	0.95	47.70	0.28	42.60	1.78	0.93	0.04	0.10	0.01	0.13	0.03	0.01	0.01	0.25
				144484	171.95	177.00	5.05	48.00	0.41	44.60	2.20	1.47	0.08	0.19	0.02	0.14	0.05	0.01	0.01	0.29
				144485	177.00	181.75	4.75	43.70	0.14	50.90	2.26	1.24	0.05	0.08	0.01	0.14	0.04	0.01	0.01	0.04
0	181.75	269.11	IF-F - light to medium gray, alternatind bands,	144486	181.75	186.00	4.25	48.70	0.26	45.90	2.13	1.03	0.03	0.13	0.02	0.14	0.05	0.01	0.01	0.29
				144487	186.00	192.00	6.00	46.70	0.51	47.00	2.27	1.28	0.04	0.23	0.02	0.13	0.05	0.01	0.01	0.27

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
			from high to low angle, very little sulphides, trace amounts of pyrite, cpy, po, very little siderite From 252.50 -269.11 There is jasper. @258, there is some coarser grained iron, it may be hematite, taking a streak test in jasper is hard to determine. Short interval.	144488	192.00	198.00	6.00	46.60	0.13	46.60	2.23	1.32	0.11	0.07	0.01	0.12	0.05	0.01	0.01	0.12
				144489	198.00	204.00	6.00	52.00	0.96	39.70	2.17	1.38	0.10	0.31	0.04	0.12	0.08	0.01	0.01	1.02
				144490	204.00	210.00	6.00	49.70	0.21	45.60	2.17	1.23	0.02	0.11	0.01	0.13	0.03	0.01	0.01	0.11
				144491	210.00	216.00	6.00	49.50	0.37	45.00	2.12	1.38	0.04	0.15	0.02	0.13	0.03	0.01	0.01	0.18
				144493	216.00	220.31	4.31	46.50	0.74	45.40	2.07	1.80	0.09	0.30	0.03	0.14	0.08	0.01	0.01	0.51
0	220.31	221.00	IDD - fine grained intrusive, pale to medium grained. Soft, contains biotite and small phlogopite around the contact.	144494	220.31	221.00	0.69	55.20	13.90	17.70	6.01	0.86	0.42	0.02	0.64	0.53	0.02	0.04	0.02	0.02
				144495	221.00	225.00	4.00	47.00	0.21	46.80	2.10	1.67	0.01	0.07	0.01	0.10	0.04	0.01	0.01	0.77
				144496	225.00	231.00	6.00	46.60	0.12	48.00	2.53	1.21	0.03	0.07	0.01	0.10	0.05	0.01	0.01	0.45
				144497	231.00	235.34	4.34	47.60	0.21	48.40	1.83	1.03	0.02	0.08	0.01	0.09	0.02	0.01	0.01	0.30
1	235.34	237.06	IF-E - dark gray banded iron, low angle, with minnesotite.	144498	235.34	237.06	1.72	45.10	0.06	53.00	1.19	0.84	0.01	0.03	0.01	0.08	0.01	0.01	0.01	0.06
				144500	237.06	243.00	5.94	49.90	0.12	47.00	1.68	0.96	0.02	0.07	0.01	0.09	0.01	0.01	0.01	0.20
				104751	243.00	249.00	6.00	45.00	0.25	49.90	1.64	1.75	0.03	0.08	0.01	0.09	0.01	0.01	0.01	0.14
				104752	249.00	255.00	6.00	43.40	0.29	50.00	2.12	1.78	0.03	0.08	0.02	0.08	0.01	0.01	0.01	0.47
				104753	255.00	261.00	6.00	42.70	0.10	54.40	1.97	0.93	0.03	0.01	0.01	0.08	0.01	0.01	0.01	0.11
				104755	261.00	263.80	2.80	47.70	2.99	40.60	3.15	1.76	1.71	0.08	0.16	0.21	0.01	0.02	0.01	0.06
				104756	263.80	269.11	5.31	48.10	0.06	48.90	2.45	0.37	0.03	0.01	0.01	0.08	0.01	0.02	0.01	0.02
0	269.11	275.55	IF-G - Zone of less iron, though still grades that could be If-f possibly 20-30% This zone has increased amounts of pyrite, pyrite is fine to medium grained. Pyrite is associate with the iron and chloritization, and jointing. Small sections where pyrite fills between magnetite bands. A few siderite veins. Bands become increasingly deformed to	104757	269.11	275.55	6.44	51.80	0.18	40.70	1.80	1.41	0.01	0.01	0.01	0.08	0.03	0.01	0.01	0.83

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
			the centre, completely brecciated and back.																		
0	275.55	312.40	IF-F - Alternating bands of chert and magnetite, mostly vertical and less than 1cm, increasing epidotization down hole. minnesotite, siderite and calcite present. Small zones of brecciation in between, with silicification after breccia zone downhole.	104758 104759 104761	275.55 279.00 285.00	279.00 285.00 288.62	3.45 6.00 3.62	46.40 42.80 46.20	0.06 0.24 0.09	47.20 48.90 47.50	1.83 2.39 2.31	2.28 2.05 1.39	0.01 0.03 0.01	0.01 0.10 0.06	0.01 0.03 0.01	0.08 0.06 0.07	0.01 0.02 0.02	0.01 0.01 0.01	0.01 0.01 0.01	0.11 0.07 0.04	
1	288.62	291.49	IF-H - brecciated zone, increased amount of siderite and minnesotite, still <5%, medium to fine grained pyrite present, magnetite band become increasingly distorted, signs of extension and fluid alteration. Base is silicified. Magnetite being replaced by pyrite. Magnetite rich >20%.	104762 104763	288.62 291.47	291.47 297.00	2.85 5.53	47.60 49.90	0.27 0.15	43.80 43.80	1.87 2.23	1.22 1.12	0.05 0.03	0.12 0.08	0.01 0.01	0.06 0.09	0.03 0.03	0.01 0.01	0.01 0.01	0.01 0.01	0.25 0.05
				104764	297.00	303.00	6.00	51.40	0.34	40.30	2.19	1.30	0.04	0.15	0.02	0.10	0.06	0.01	0.01	0.01	0.20
				104765	303.00	309.00	6.00	51.80	0.30	41.00	2.85	1.11	0.02	0.12	0.01	0.07	0.09	0.01	0.01	0.01	0.16
				104766	309.00	312.40	3.40	53.30	0.58	35.90	3.11	1.00	0.05	0.18	0.04	0.08	0.11	0.01	0.01	0.01	0.66
0	312.40	317.85	IF-G - alternating bands of mudstone, chert, quartz, and magnetite, most magnetite has been replaced. Lots of replacement reactions and dissolution, fine to medium grained pyrite disseminated throughout, po in first two meters, strong presence of siderite and minnesotite, and calcite veining. Bands are mostly 1-3cm in thickness, with alteration throughout.	104767	312.40	317.85	5.45	54.70	3.86	27.20	2.90	0.47	0.02	0.06	0.18	0.05	0.13	0.01	0.01	0.01	2.80
0	317.85	321.00	SM	104768	317.85	320.60	2.75	61.50	17.30	9.57	1.86	0.23	0.28	3.76	0.67	0.09	0.03	0.02	0.02	1.08	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
0	320.60	320.90	- The same mudstone as the last unit, fine to medium grained pyrite following alterations, Very soft unit.																		
0	321.00	330.00	FZ - mudstone and coarse calcite, fault gauge zone, highly weathered, IDD - Light green fine grained, calcite veining, rock fizzes on contact with HCL, disseminated pyrite																		

End of Lithology and Assays ;



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
12.00	15.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
15.00	18.00	3.00	0.00	0.00	1.73	0.00	2.60	0.00	0.00	0.00	0.00	0.00	
18.00	21.00	3.00	0.00	0.00	1.53	0.00	1.86	0.00	0.00	0.00	0.00	0.00	
21.00	24.00	3.00	0.00	0.00	0.76	0.00	1.71	0.00	0.00	0.00	0.00	0.00	
24.00	27.00	3.00	0.00	0.00	0.90	0.00	0.90	0.00	0.00	0.00	0.00	0.00	
27.00	30.00	3.00	0.00	0.00	1.43	0.00	1.43	0.00	0.00	0.00	0.00	0.00	
30.00	33.00	3.00	0.00	0.00	1.15	0.00	2.26	0.00	0.00	0.00	0.00	0.00	
33.00	36.00	3.00	0.00	0.00	1.34	0.00	1.85	0.00	0.00	0.00	0.00	0.00	
36.00	39.00	3.00	0.00	0.00	0.58	0.00	1.61	0.00	0.00	0.00	0.00	0.00	
39.00	42.00	3.00	0.00	0.00	1.30	0.00	2.78	0.00	0.00	0.00	0.00	0.00	
42.00	45.00	3.00	0.00	0.00	0.40	0.00	3.07	0.00	0.00	0.00	0.00	0.00	
45.00	48.00	3.00	0.00	0.00	0.16	0.00	3.18	0.00	0.00	0.00	0.00	0.00	
48.00	51.00	3.00	0.00	0.00	0.61	0.00	2.60	0.00	0.00	0.00	0.00	0.00	
51.00	54.00	3.00	0.00	0.00	0.78	0.00	2.86	0.00	0.00	0.00	0.00	0.00	
54.00	57.00	3.00	0.00	0.00	0.91	0.00	1.46	0.00	0.00	0.00	0.00	0.00	
57.00	60.00	3.00	0.00	0.00	0.62	0.00	0.62	0.00	0.00	0.00	0.00	0.00	
60.00	63.00	3.00	0.00	0.00	0.79	0.00	0.79	0.00	0.00	0.00	0.00	0.00	
63.00	66.00	3.00	0.00	0.00	0.71	0.00	1.47	0.00	0.00	0.00	0.00	0.00	
66.00	69.00	3.00	0.00	0.00	0.23	0.00	1.90	0.00	0.00	0.00	0.00	0.00	
69.00	72.00	3.00	0.00	0.00	1.22	0.00	1.30	0.00	0.00	0.00	0.00	0.00	
72.00	75.00	3.00	0.00	0.00	0.83	0.00	2.30	0.00	0.00	0.00	0.00	0.00	
75.00	78.00	3.00	0.00	0.00	0.76	0.00	1.92	0.00	0.00	0.00	0.00	0.00	
78.00	81.00	3.00	0.00	0.00	0.43	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
81.00	84.00	3.00	0.00	0.00	0.32	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
84.00	87.00	3.00	0.00	0.00	0.35	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
87.00	90.00	3.00	0.00	0.00	0.19	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
90.00	93.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
93.00	96.00	3.00	0.00	0.00	0.05	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
96.00	99.00	3.00	0.00	0.00	0.40	0.00	3.00	0.00	0.00	0.00	0.00	0.00	



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**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
99.00	102.00	3.00	0.00	0.00	0.14	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
102.00	105.00	3.00	0.00	0.00	0.23	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
105.00	108.00	3.00	0.00	0.00	0.70	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
108.00	111.00	3.00	0.00	0.00	0.27	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
111.00	114.00	3.00	0.00	0.00	0.38	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
114.00	117.00	3.00	0.00	0.00	0.08	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
117.00	120.00	3.00	0.00	0.00	0.14	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
120.00	123.00	3.00	0.00	0.00	0.08	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
123.00	126.00	3.00	0.00	0.00	0.13	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
126.00	129.00	3.00	0.00	0.00	0.15	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
129.00	132.00	3.00	0.00	0.00	0.33	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
132.00	135.00	3.00	0.00	0.00	0.13	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
135.00	138.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
138.00	141.00	3.00	0.00	0.00	0.07	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
141.00	144.00	3.00	0.00	0.00	0.07	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
144.00	147.00	3.00	0.00	0.00	0.22	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
147.00	150.00	3.00	0.00	0.00	0.12	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
150.00	153.00	3.00	0.00	0.00	0.23	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
153.00	156.00	3.00	0.00	0.00	0.26	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
156.00	159.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
159.00	162.00	3.00	0.00	0.00	0.24	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
162.00	165.00	3.00	0.00	0.00	0.06	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
165.00	168.00	3.00	0.00	0.00	0.03	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
168.00	171.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
171.00	174.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
174.00	177.00	3.00	0.00	0.00	0.21	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
177.00	180.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
180.00	183.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
183.00	186.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	

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**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
186.00	189.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
189.00	192.00	3.00	0.00	0.00	0.05	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
192.00	195.00	3.00	0.00	0.00	0.06	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
195.00	198.00	3.00	0.00	0.00	0.07	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
198.00	201.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
201.00	204.00	3.00	0.00	0.00	0.11	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
204.00	207.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
207.00	210.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
210.00	213.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
213.00	216.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
216.00	219.00	3.00	0.00	0.00	0.11	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
219.00	222.00	3.00	0.00	0.00	0.21	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
222.00	225.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
225.00	228.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
228.00	231.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
231.00	234.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
234.00	237.00	3.00	0.00	0.00	0.27	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
237.00	240.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
240.00	243.00	3.00	0.00	0.00	0.60	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
243.00	246.00	3.00	0.00	0.00	0.64	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
246.00	249.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
249.00	252.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
252.00	255.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
255.00	258.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
258.00	261.00	3.00	0.00	0.00	1.40	0.00	2.55	0.00	0.00	0.00	0.00	0.00	
261.00	264.00	3.00	0.00	0.00	0.02	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
264.00	267.00	3.00	0.00	0.00	0.35	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
267.00	270.00	3.00	0.00	0.00	0.39	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
270.00	273.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>CalculRQP</i>	<i>Pces&lt;100</i>	<i>talRecover</i>	<i>Recovery</i>	<i>Fractures</i>	<i>sacts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
			<i>%</i>	<i>%</i>		<i>%</i>							
273.00	276.00	3.00	0.00	0.00	0.16	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
276.00	279.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
279.00	282.00	3.00	0.00	0.00	0.24	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
282.00	285.00	3.00	0.00	0.00	0.13	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
285.00	288.00	3.00	0.00	0.00	0.18	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
288.00	291.00	3.00	0.00	0.00	0.06	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
291.00	294.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
294.00	297.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
297.00	300.00	3.00	0.00	0.00	0.08	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
300.00	303.00	3.00	0.00	0.00	0.45	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
303.00	306.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
306.00	309.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
309.00	312.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
312.00	315.00	3.00	0.00	0.00	0.07	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
315.00	318.00	3.00	0.00	0.00	0.56	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
318.00	321.00	3.00	0.00	0.00	1.04	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
321.00	324.00	3.00	0.00	0.00	0.72	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
324.00	327.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
327.00	330.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	

End of RQD ; 106 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
12.00	28.55	Oxidized		

End of Alterations ; 1 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
42.66	54.00	IF-F			20	0	0	2	1	60	0
108.35	120.55	IF-G			2	0	20	10	0	50	0
124.14	162.61	IF-G			5	0	20	5	0	50	0
162.61	165.73	IF-F			30	0	0	0	0	60	0
165.73	171.00	IF-E			50	0	1	1	1	40	0
171.00	171.95	TBX			25	0	0	0	5	60	0
171.95	184.75	IF-E			60	0	0	1	0	29	0
184.75	195.00	IF-F			40	0	0	1	0	50	0
195.00	204.00	IF-F			40	0	0	3	3	50	0
204.00	220.31	IF-F			40	0	0	1	0	50	0
221.00	235.34	IF-F			30	0	0	1	0	60	0
235.34	237.06	IF-E			60	0	0	0	0	40	0
237.06	269.11	IF-F			45	0	0	2	0	50	0
269.11	275.55	IF-G			30	0	0	10	0	60	0
275.55	288.62	IF-F			40	0	0	1	0	50	0
288.62	291.47	IF-G			30	0	0	5	5	60	0
291.47	312.40	IF-F			35	0	0	2	2	50	0
312.40	317.85				10	0	5	8	4	40	0

End of Mineralizations ; 18 record(s) printed.





*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
21.92	60.00	S1	
31.70	35.00	S1	
42.80	45.00	S0	
51.17	50.00	S0	
82.80	50.00	S1	
91.95	30.00	S1	
103.03	45.00	S1	
111.30	50.00	S1	
116.65	80.00	S0	
120.23	45.00	S0	
123.75	60.00	S0	
135.12	25.00	S1	
142.40	30.00	S1	
155.12	15.00	S1	
156.36	35.00	S0	
163.38	45.00	S0	
171.10	20.00	S0	
182.43	50.00	S0	
190.90	40.00	S0	
202.13	30.00	S1	min alignment
212.78	30.00	S0	
230.61	30.00	S1	
233.20	30.00	S0	
233.20	140.00	S1	displacing bedding
242.43	20.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
245.49	70.00	S1	displacement
254.49	50.00	S0	
264.55	55.00	S0	
269.32	150.00	S1	displacement
269.46	60.00	S0	
278.14	130.00	S1	
278.81	70.00	S0	
284.50	80.00	S0	
288.78	60.00	Vcc	with minnesotite
296.02	70.00	S0	
310.12	55.00	S0	
320.60	50.00	Vcc	Fault gauge, calcite + idd
327.67	35.00	S1	

End of Structures ;            38 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-12

<b>Easting:</b> 412325.30	<b>Northing:</b> 5334023.20	<b>Elevation:</b> 415.90
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 102.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> Orbit Garant
<b>Started:</b> 24/10/2011	<b>Finished:</b> 28/10/2011	<b>Logged By:</b> Matthew Halliday
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
6.00	207.90	0.00	-42.10	EZ Shot	Inactive
102.00	179.10	0.00	-41.10	EZ Shot	Active

51.00	102.50	0.00	-42.10	EZ Shot	Inactive
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End of Deviations ; 3 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	0.00	24.50	OVB - boulders, granitoid																		
0	24.50	36.64	IF-F - alternating bands of iron, jasper, and chert. Reddish grey to dark grey. Some coarse grained pyrite. This section is fairly high iron content, on the border of IF-F and IF-E. Near surface, some of the fractures have soft fill, chlorites and muds. Other fractures have iron staining. Disseminated pyrite, from fine grained to coarse grained, some elongated. Small amounts of siderite.	104769 104770	24.50 30.50	30.50 36.64	6.00 6.14	48.40 47.30	0.12 0.11	49.70 49.20	1.71 2.16	0.40 0.30	0.01 0.01	0.01 0.01	0.01 0.01	0.07 0.07	0.03 0.02	0.01 0.01	0.01 0.01	0.15 0.03	
0	36.64	42.63	IF-H - Alternating bands of iron, chert, siderite, Magnetite content over 30%. Pyrites are more fine grained, disseminated throughout.	104771	36.64	42.63	5.99	45.50	0.22	45.80	1.89	0.91	0.01	0.01	0.01	0.07	0.03	0.01	0.01	0.48	
0	42.63	53.95	IF-F - Medium grey, more chert, a small amount of jasper returns. Around 30-40% magnetite. lights amount of shear, mostly coherent. Bulk of the iron bands are around .8cm ranging from 1mm-3cm thickness. Fractures, contain soft materials, either chlorites, with some iron staining or an iron stained clay.	104773 104774	42.63 48.00	48.00 53.96	5.37 5.96	48.10 48.10	0.27 0.23	45.90 41.50	1.87 2.50	0.81 0.95	0.01 0.01	0.05 0.06	0.01 0.01	0.11 0.10	0.04 0.08	0.01 0.01	0.01 0.01	0.03 0.20	
0	53.95	66.80	IF-G - intercalated bands of mudtone and chert, grading into SAG. A lot more fractures, softer rock. Pyrites disseminated throughout, and accumulating along beds. Zones of oxidation and weathering, Fault gouge, soft, slick.	104775	53.96	60.00	6.04	61.50	16.20	12.40	2.01	0.16	0.46	2.89	0.66	0.09	0.08	0.02	0.02	0.98	
1	58.40	59.70	FZ																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
1	60.44	62.00	- Soft Argyllite material - weathered, contains sulphides.  FZ - Soft Argyllite material																		
0	66.80	102.00	SM - alternating sections of light green and light grey, green darkens downhole. Highly fractured, iron staining in fractures. Calcite veining increases downhole.																		

End of Lithology and Assays ;

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	sacts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
24.00	27.00	3.00	0.00	0.00	0.99	0.00	3.00	0.00	0.00	0.00	0.00	0.00	Top has boulder fragments
27.00	30.00	3.00	0.00	0.00	1.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
30.00	33.00	3.00	0.00	0.00	0.47	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
33.00	36.00	3.00	0.00	0.00	0.38	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
36.00	39.00	3.00	0.00	0.00	0.04	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
39.00	42.00	3.00	0.00	0.00	0.44	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
42.00	45.00	3.00	0.00	0.00	0.37	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
45.00	48.00	3.00	0.00	0.00	0.08	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
48.00	51.00	3.00	0.00	0.00	0.15	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
51.00	54.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
54.00	57.00	3.00	0.00	0.00	1.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
57.00	60.00	3.00	0.00	0.00	1.10	0.00	2.10	0.00	0.00	0.00	0.00	0.00	chloritization and fault gouge
60.00	63.00	3.00	0.00	0.00	1.40	0.00	2.20	0.00	0.00	0.00	0.00	0.00	
63.00	66.00	3.00	0.00	0.00	1.16	0.00	2.80	0.00	0.00	0.00	0.00	0.00	
66.00	69.00	3.00	0.00	0.00	1.73	0.00	2.83	0.00	0.00	0.00	0.00	0.00	
69.00	72.00	3.00	0.00	0.00	2.33	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
72.00	75.00	3.00	0.00	0.00	2.08	0.00	2.70	0.00	0.00	0.00	0.00	0.00	
75.00	78.00	3.00	0.00	0.00	0.75	0.00	2.77	0.00	0.00	0.00	0.00	0.00	
78.00	81.00	3.00	0.00	0.00	1.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
81.00	84.00	3.00	0.00	0.00	1.42	0.00	2.52	0.00	0.00	0.00	0.00	0.00	
84.00	87.00	3.00	0.00	0.00	1.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
87.00	90.00	3.00	0.00	0.00	0.83	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
90.00	93.00	3.00	0.00	0.00	0.50	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
93.00	96.00	3.00	0.00	0.00	0.25	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
96.00	99.00	3.00	0.00	0.00	0.12	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
99.00	102.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	

End of RQD ; 26 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
24.50	36.64	IF-F			44	0	0	5	1	50	0
36.64	42.63	IF-H			35	0	0	5	5	55	0
42.63	53.96	IF-F			40	0	0	2	2	56	0
53.96	66.80	IF-G			0	0	0	15	1	50	0

End of Mineralizations ;      4 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
26.14	25.00	S0	
38.75	25.00	S0	
42.44	145.00	VQ	Contains siderite
48.37	40.00	S0	
49.05	135.00	VQ	contains sid+min small pyrite at outer boundary
50.15	35.00	VQ	[S2]
50.15	135.00	VQ	[S1] displaced quartz vein, may contain sid
50.15	35.00	S0	iron band
57.14	40.00	S0	
63.28	40.00	S1	
69.60	40.00	S0	
90.76	50.00	S1	
98.40	55.00	S1	

End of Structures ;            13 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-13

<b>Easting:</b> 412244.70	<b>Northing:</b> 5334267.00	<b>Elevation:</b> 406.00
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 315.00 <i>m.</i>
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> Orbit Garant
<b>Started:</b> 11/10/11	<b>Finished:</b> 17/10/11	<b>Logged By:</b> J-P Paiement
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
50.00	185.40	0.00	-40.60	EZ Shot	Active
150.00	202.60	0.00	-38.90	EZ Shot	Active
250.00	238.40	0.00	-37.60	EZ Shot	Inactive

102.00	188.10	0.00	-39.40	EZ Shot	Active
204.00	195.40	0.00	-38.40	EZ Shot	Active
315.00	199.10	0.00	-37.10	EZ Shot	Active

End of Deviations ; 6 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	0.00	30.00	OVB																		
0	30.00	57.38	VB - Light gray volcanic rock with vacuole features.																		
0	57.38	64.40	TBX - Tectonic Breccia with volcanic and sedimentary (chert) clasts. Clasts are angular to rounded. Matrix composed of mustone, chlorite and pyrite. Pyriyte is fine to coarsed grained.																		
0	64.40	77.82	SAG - Dark to black graphitic argilites with sulphide beds and nodules. Sul beds varie from 1mm to 30cm. Argilite intercallated with silicieous mudtsone containing Pyrite. Massive pyrite horizons are observed.																		
0	77.82	81.32	IDB - Fine grained and altered intrusive rock. Gray to light green with fine grained disseminated pyrite. Sharp non cooked contact. Interbeds of argilite.																		
0	81.32	83.77	SAG - Dark to black graphitic argilites with sulphide beds and nodules. Sul beds varie from 1mm to 30cm. Argilite intercallated with silicieous mudtsone containing Pyrite. Massive pyrite horizons are observed.																		
0	83.77	91.95	HBX - Hydrothermal breccia with silicieous to cherty clasts. Matrix composed of mudstone, chlorite and pyrite. Pyrite is fine to coarse gained.																		

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
0	96.62	114.96	SC - light to dark grey bedded chert, intercalated with mudstone, beds are typically 1-8cm, contains fine-medium grained sulphides, mostly po and py. Brittle deformation, beds are broken up.																		
0	114.96	116.73	SAG - Dark to black graphitic argillites with sulphide beds and nodules. Sul beds varie from 1mm to 7cm. Argilite intercalated with silicieous mudtsone containing Pyrite.																		
0	116.73	122.71	SM - light grey to light green, fine grain sedimentary mudstone, with fine grain sulphides (po + py) mostly accumulated alond bedding surface																		
0	122.71	132.59	TBX - Tectonic Breccia with volcanic and sedimentary (chert) clasts. Clasts are angular to rounded. Matrix composed of mustone, chlorite and pyrite. Pyriyte is fine to coarsed grained.																		
0	132.59	148.06	SM - light grey to light green, fine grain sedimentary mudstone, with fine grain sulphides (po + py) mostly accumulated alond bedding surface																		
0	148.06	173.93	TBX - Tectonic Breccia with volcanic and sedimentary (chert) clasts. Clasts are angular to rounded. Matrix composed of mustone, chlorite and pyrite. Pyriyte is fine to coarsed grained. Contains a small unit of SM																		



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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
1	151.05	152.90	SM - light grey to light green, fine grain sedimentary mudstone, with fine grain sulphides (po + py) mostly accumulated along bedding surface																		
1	156.93	158.12	SM - light grey to light green, fine grain sedimentary mudstone, with fine grain sulphides (po + py)																		
1	168.36	171.18	SM - light green, fine grain sedimentary mudstone, massive with some quartz stringers																		
0	179.93	186.44	SLC - light to dark grey bedded chert, intercalated with mudstone, beds are typically 1-8cm, contains fine-medium grained sulphides, mostly po and py. Brittle deformation, beds are broken up. Contains some thin magnetite bands and siderite. Siderite crystallization and replacement along quartz veins.	144448	181.00	186.44	5.44	52.60	3.75	24.80	2.12	1.84	0.16	0.86	0.15	0.12	0.07	0.01	0.01	0.01	1.12
0	186.44	195.24	IF-H - Siderite Iron Formation, alternating bands of chert, magnetite and siderite. bands ranging from mm - 6 cm. quartz, and cross cutting veins filled with crystalline siderite.	144449 144450	186.44 192.00	192.00 195.24	5.56 3.24	50.20 45.20	1.08 2.44	33.30 30.50	1.86 2.35	1.61 1.99	0.10 0.21	0.04 0.55	0.03 0.09	0.16 0.15	0.04 0.08	0.01 0.02	0.01 0.01	0.01 0.01	0.60 1.11
0	195.24	218.00	IF-F - Iron Formation containing < 50% magnetite. Alternating bands of chert and magnetite. Magnetite bands from around 5mm - 8cm. Contains trace	144451 144452 144453 144454	195.24 201.00 207.00 213.00	201.00 207.00 213.00 218.00	5.76 6.00 6.00 5.00	42.10 48.20 49.10 47.40	2.04 1.04 1.13 0.87	37.10 37.10 33.70 37.60	2.34 1.71 1.71 1.81	2.13 1.14 1.59 1.50	0.15 0.01 0.02 0.03	0.09 0.02 0.02 0.05	0.07 0.04 0.04 0.04	0.20 0.19 0.16 0.20	0.04 0.02 0.05 0.04	0.01 0.02 0.02 0.01	0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01	0.39 0.55 0.42 0.47

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
0	218.00	222.54	amounts of pyrite, and siderite mostly in zones with small cross cutting quartz veins. IF-G - less than 10% magnetite bands, fine grained pyrite filling fractures and disseminated in shear fabric. Chloritization occurring and significantly less chert.	144456	218.00	222.54	4.54	48.20	0.84	38.40	2.12	0.51	0.09	0.31	0.04	0.11	0.08	0.01	0.01	0.01	1.82
0	222.54	243.45	IF-F - Iron Formation containing ~40% magnetite. Alternating bands of of chert and magnetite. Magnetite bands from around 5mm - 8cm. Contains trace amounts of fine grained pyrite, found in fractures or disseminated in shear structures where ther is chloritization. Not much chloritization	144457 144458 144459	222.54 228.00 234.00	228.00 234.00 237.82	5.46 6.00 3.82	49.80 51.60 54.80	0.53 0.69 2.57	42.50 41.30 34.80	1.78 1.77 2.11	0.81 0.78 0.46	0.07 0.08 0.16	0.21 0.24 0.39	0.02 0.02 0.10	0.11 0.15 0.09	0.04 0.06 0.07	0.01 0.01 0.01	0.01 0.01 0.01	0.01 0.01 0.01	0.41 0.56 1.63
1	236.07	237.57	IF-G - less than 10% magnetite bands, fine grained pyrite filling fractures and disseminated in shear fabric. Chloritization occurring and significantly less chert.	144460	237.82	243.45	5.63	51.40	0.44	43.20	1.77	0.78	0.04	0.18	0.01	0.11	0.05	0.01	0.01	0.01	0.50
0	243.45	252.00	IF-E - Dark grey, alternating beds of chert and magnetite, magnetite bands are small 0.5cm-2cm closely spaced. Closer to the IFG downhole, there is more pyrite disseminated into the IF-E and even within some of the bands. Pyrite is all finegrained.	144461 144462	243.45 249.00	249.00 252.00	5.55 3.00	46.00 48.60	0.12 0.11	48.60 44.90	1.66 2.18	0.39 0.18	0.02 0.01	0.06 0.06	0.01 0.01	0.11 0.11	0.03 0.08	0.01 0.01	0.01 0.01	0.01 0.01	0.74 2.34
0	252.00	262.16	IF-G - less than 10% magnetite bands . Large	144464 144465	252.00 258.00	258.00 262.16	6.00 4.16	57.60 52.60	0.28 0.41	29.20 29.50	2.10 2.50	0.31 0.31	0.03 0.03	0.11 0.10	0.02 0.03	0.04 0.05	0.27 0.25	0.01 0.02	0.01 0.01	0.01 0.01	7.30 3.43

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S		
								%	%	%	%	%	%	%	%	%	%	%	%	%	%	
			amounts of pyrite replacing magnetite also disseminated throughout fine grained. Small amounts of siderite. Silicification is occurring. Some small sections of tectonic breccia, angular clasts of magnetite and disseminated pyrite throughout. Pourous pyritic replacement zones as large as 20cm.																			
0	262.16	277.04	IF-F - Iron Formation containing 35~40% magnetite. Alternating bands of of chert and magnetite. Alternating bands are around 1-3cm. Most bands are coherent, some bands have small brittle displacements. A small number of finegrained siderite bands and a few fine to coarse grained siderite bands near veins.	144466 144467 144468	262.16 267.00 273.00	267.00 273.00 277.04	4.84 6.00 4.04	45.30 40.40 42.70	0.16 0.12 0.09	36.60 46.50 45.90	2.24 1.92 2.18	0.92 1.15 2.03	0.02 0.02 0.01	0.05 0.04 0.02	0.01 0.01 0.01	0.06 0.08 0.06	0.08 0.03 0.03	0.01 0.01 0.02	0.01 0.01 0.01	0.01 0.01 0.01	0.26 0.20 0.26	
0	277.04	286.10	IF-E - banded iron and chert around 60-70%. Dark grey - reddish purple Jasper. Bands mostly 0.5cm-1.5cm alternating. Fine grained pyrite filling some of the veining, and small amounts of pyrite disseminated in matrix	144469 144470	277.04 282.00	282.00 286.10	4.96 4.10	47.30 47.70	0.04 0.07	49.70 48.10	2.20 1.73	0.73 1.07	0.02 0.02	0.01 0.01	0.01 0.01	0.06 0.06	0.01 0.02	0.01 0.02	0.01 0.01	0.01 0.01	0.01 0.01	0.09 0.27
0	286.10	294.92	IF-F - Iron Formation containing 35~40% magnetite. Alternating bands of of chert and magnetite. Alternating bands are around 1-3cm. Most bands are coherent, some bands have small brittle displacements. Jasper in the last meter.	144471 144473	286.10 291.00	291.00 294.92	4.90 3.92	43.90 43.40	0.04 0.03	45.10 46.60	2.11 2.27	2.78 1.95	0.01 0.01	0.01 0.01	0.01 0.01	0.10 0.07	0.02 0.01	0.01 0.01	0.01 0.01	0.01 0.01	0.01 0.01	0.14 0.10
0	294.92	303.36	SC - light to dark grey bedded chert, intercalated with mudstone, bed are not well defined. Siderite associated with the upper contact all fine grained. Also an	144474	294.92	300.00	5.08	53.20	1.85	27.60	2.67	0.99	0.02	0.01	0.08	0.06	0.13	0.02	0.01	0.01	0.59	

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
0	303.36	315.00	short alteration halo. beds are typically 1-8cm, contains fine grained sulphides, mostly py associate with the mudstone. SM - grading from a greenish mudstone intercalated cherts and talcy mudstone to a dark grey sheared talcy/sooapy mcattous mudstone. Fine-medium grained pyrite bothdisseminated in shear fabric and along veins.																		
1	314.45	314.65	FZ - Fault zone, Highly weather, possibly chlorite and talc.																		

End of Lithology and Assays ;



*Satellite database created from Rogue-**RadioHill DDH2011.accdb***

**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcu</i>	<i>RQPces&lt;100</i>	<i>talReco</i>	<i>Recovery</i>	<i>Fractures</i>	<i>acts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
				<i>%</i>		<i>%</i>							
30.00	33.00	3.00	0.00	0.00	2.00	0.00	2.30	0.00	0.00	0.00	0.00	0.00	Extremely fractured and moderate porosity
33.00	36.00	3.00	0.00	0.00	0.90	0.00	3.00	0.00	0.00	0.00	0.00	0.00	Extremely fractured and moderate porosity
36.00	39.00	3.00	0.00	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	Extremely fractured and moderate porosity
39.00	42.00	3.00	0.00	0.00	2.75	0.00	3.00	0.00	0.00	0.00	0.00	0.00	Extremely fractured and moderate porosity
42.00	45.00	3.00	0.00	0.00	0.75	0.00	3.00	0.00	0.00	0.00	0.00	0.00	Extremely fractured and moderate porosity
45.00	48.00	3.00	0.00	0.00	2.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	Extremely fractured and moderate porosity
48.00	51.00	3.00	0.00	0.00	1.80	0.00	3.00	0.00	0.00	0.00	0.00	0.00	Extremely fractured and moderate porosity
51.00	54.00	3.00	0.00	0.00	1.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	Extremely fractured and moderate porosity
54.00	57.00	3.00	0.00	0.00	2.40	0.00	3.00	0.00	0.00	0.00	0.00	0.00	Extremely fractured and moderate porosity
57.00	60.00	3.00	0.00	0.00	1.35	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
60.00	63.00	3.00	0.00	0.00	0.50	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
63.00	66.00	3.00	0.00	0.00	1.63	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
66.00	69.00	3.00	0.00	0.00	1.67	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
69.00	72.00	3.00	0.00	0.00	1.35	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
72.00	75.00	3.00	0.00	0.00	0.48	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
75.00	78.00	3.00	0.00	0.00	0.74	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
78.00	81.00	3.00	0.00	0.00	0.43	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
81.00	84.00	3.00	0.00	0.00	0.24	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
84.00	87.00	3.00	0.00	0.00	0.42	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
87.00	90.00	3.00	0.00	0.00	0.50	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
90.00	93.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
93.00	96.00	3.00	0.00	0.00	0.18	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
96.00	99.00	3.00	0.00	0.00	0.19	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
99.00	102.00	3.00	0.00	0.00	0.74	0.00	3.00	0.00	0.00	0.00	0.00	0.00	

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**RQD:**

From	To	length	%ces>100	Calcu	RQP	%ces<100	tal	Recove	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%			%									
102.00	105.00	3.00	0.00	0.00	0.32	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
105.00	108.00	3.00	0.00	0.00	0.03	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
108.00	111.00	3.00	0.00	0.00	0.81	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
111.00	114.00	3.00	0.00	0.00	0.65	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
114.00	117.00	3.00	0.00	0.00	0.67	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
117.00	120.00	3.00	0.00	0.00	0.39	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
120.00	123.00	3.00	0.00	0.00	0.60	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
123.00	126.00	3.00	0.00	0.00	0.24	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
126.00	129.00	3.00	0.00	0.00	0.06	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
129.00	132.00	3.00	0.00	0.00	0.48	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
132.00	135.00	3.00	0.00	0.00	0.60	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
135.00	138.00	3.00	0.00	0.00	0.19	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
138.00	141.00	3.00	0.00	0.00	0.15	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
141.00	144.00	3.00	0.00	0.00	0.12	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
144.00	147.00	3.00	0.00	0.00	0.32	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
147.00	150.00	3.00	0.00	0.00	0.27	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
150.00	153.00	3.00	0.00	0.00	0.54	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
153.00	156.00	3.00	0.00	0.00	0.11	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
156.00	159.00	3.00	0.00	0.00	0.23	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
159.00	162.00	3.00	0.00	0.00	0.18	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
162.00	165.00	3.00	0.00	0.00	0.27	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
165.00	168.00	3.00	0.00	0.00	0.07	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
168.00	171.00	3.00	0.00	0.00	0.13	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
171.00	174.00	3.00	0.00	0.00	0.43	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
174.00	177.00	3.00	0.00	0.00	0.35	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
177.00	180.00	3.00	0.00	0.00	0.12	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
180.00	183.00	3.00	0.00	0.00	0.21	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
183.00	186.00	3.00	0.00	0.00	0.18	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
186.00	189.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcul</i>	<i>RQPces&lt;100</i>	<i>talRecover</i>	<i>Recovery</i>	<i>Fractures</i>	<i>acts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
			%		%								
189.00	192.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
192.00	195.00	3.00	0.00	0.00	0.17	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
195.00	198.00	3.00	0.00	0.00	0.50	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
198.00	201.00	3.00	0.00	0.00	0.16	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
201.00	204.00	3.00	0.00	0.00	0.24	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
204.00	207.00	3.00	0.00	0.00	0.17	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
207.00	210.00	3.00	0.00	0.00	0.05	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
210.00	213.00	3.00	0.00	0.00	0.60	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
213.00	216.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
216.00	219.00	3.00	0.00	0.00	0.22	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
219.00	222.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
222.00	225.00	3.00	0.00	0.00	0.49	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
225.00	228.00	3.00	0.00	0.00	0.12	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
228.00	231.00	3.00	0.00	0.00	0.18	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
231.00	234.00	3.00	0.00	0.00	0.40	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
234.00	237.00	3.00	0.00	0.00	0.04	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
237.00	240.00	3.00	0.00	0.00	0.12	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
240.00	243.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
243.00	246.00	3.00	0.00	0.00	0.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
246.00	249.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
249.00	252.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
252.00	255.00	3.00	0.00	0.00	0.22	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
255.00	258.00	3.00	0.00	0.00	0.49	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
258.00	261.00	3.00	0.00	0.00	0.71	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
261.00	264.00	3.00	0.00	0.00	0.04	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
264.00	267.00	3.00	0.00	0.00	0.16	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
267.00	270.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
270.00	273.00	3.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
273.00	276.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>CalculRQP</i>	<i>Pces&lt;100</i>	<i>talRecover</i>	<i>Recovery</i>	<i>Fractures</i>	<i>acts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
			<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>						
276.00	279.00	3.00	0.00	0.00	0.02	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
279.00	282.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
282.00	285.00	3.00	0.00	0.00	0.02	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
285.00	288.00	3.00	0.00	0.00	0.07	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
288.00	291.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
291.00	294.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
294.00	297.00	3.00	0.00	0.00	0.19	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
297.00	300.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
300.00	303.00	3.00	0.00	0.00	0.76	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
303.00	306.00	3.00	0.00	0.00	0.54	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
306.00	309.00	3.00	0.00	0.00	0.11	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
309.00	312.00	3.00	0.00	0.00	0.80	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
312.00	315.00	3.00	0.00	0.00	1.05	0.00	3.00	0.00	0.00	0.00	0.00	0.00	

End of RQD ; 95 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
186.44	195.24	IF-H			0	0		1	5	70	0
195.24	218.00	IF-F			15	0	0	1	1	80	0
218.00	222.54	IF-G			10	0	0	5	0	50	0
222.54	236.07	IF-F			40	0	0	1	0	55	0
236.07	237.57	IFG			10	0	0	5	0	50	0
237.57	243.45	IF-F			40	0	0	1	0	55	0
243.45	252.00	IF-E			65	7	0	0	0	20	0
252.00	262.16	IF-G			25	0	0	15	0	50	0
262.16	277.04	IF-F			40	0	0	1	1	50	0
277.04	286.10	IF-E			65	0	0	2	0	33	0
286.10	294.92	IF-F			40	0	0	1	2	50	0

End of Mineralizations ; 11 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
59.83	65.00	S1	
62.55	55.00	S1	
65.18	85.00	S0	
76.90	75.00	S0	
100.17	65.00	S0	
105.19	50.00	S0	
112.23	30.00	S0	
120.75	40.00	S0	
127.73	40.00	S1	
138.52	45.00	S0	
156.61	45.00	S1	
163.47	40.00	S0	
166.41	50.00	S1	
175.87	35.00	S0	
181.77	65.00	S0	
198.59	50.00	S0	
201.57	65.00	S0	
214.76	35.00	S0	
223.09	45.00	S0	
231.65	50.00	S0	
238.53	50.00	S0	
248.40	50.00	S1	
259.00	70.00	S0	
264.35	60.00	S0	
274.85	65.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Structures:*

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
283.95	55.00	S0	
293.62	65.00	S0	
305.58	60.00	S1	
312.52	50.00	S1	

End of Structures ;            29 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-14

<b>Easting:</b> 412122.90	<b>Northing:</b> 5334176.60	<b>Elevation:</b> 404.20
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 180.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> Orbit Garant
<b>Started:</b> 04/11/10	<b>Finished:</b> 10/10/11	<b>Logged By:</b> J-P Paiement
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
102.00	196.70	0.00	-44.90	EZ Shot	Active
180.00	183.70	0.00	-44.50	EZ Shot	Active

150.00	179.70	0.00	-44.80	EZ Shot	Active
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End of Deviations ; 3 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
0	0.00	27.50	OVB																		
0	27.50	34.02	IF-F - Fine grained Iron formation. Composed of alternating bands of magnetite, 1mm to 2 cm with bands of gray to white chert. Upper part is oxidized due to meteoritic alteration.	144415	27.50	31.40	3.90	51.10	0.97	43.80	0.32	0.24	0.01	0.06	0.04	0.09	0.02	0.01	0.01	0.01	0.28
1	30.50	31.83	IDB - Diabase intrusive rock. Gray to greenish. Fine grained. Contact with IF contain sulphides	144416	31.40	34.02	2.62	54.10	4.61	30.90	2.11	1.94	0.06	0.88	0.19	0.17	0.07	0.01	0.01	0.01	0.70
0	34.02	43.60	IF-E - Magnetite rich Iron Formation composed of bands of ext. Fine grained magnetite from 1mm to 20 cm. Intercalated with bands of dark gray chert. Little to moderate deformation of the unit	144418 144419	34.02 39.00	39.00 43.60	4.98 4.60	46.70 46.30	0.07 0.07	49.10 49.50	1.82 1.74	0.76 0.82	0.01 0.01	0.04 0.04	0.01 0.01	0.12 0.11	0.03 0.03	0.01 0.01	0.01 0.01	0.01 0.01	0.08 0.07
0	43.60	55.48	IF-F - Fine grained Iron formation. Composed of alternating bands of magnetite, 1mm to 2 cm with bands of gray to white chert. Upper part is oxidized due to meteoritic alteration. At 49.80 chert content increase with the apparition of siderite	144420	43.60	46.00	2.40	53.30	0.40	38.30	1.73	0.48	0.02	0.08	0.02	0.11	0.05	0.01	0.01	0.01	1.11
1	44.50	45.00	IF-G - Interval of replaced IF by minesotaite and Pyrite.																		
				144421	46.00	49.80	3.80	44.80	0.07	48.50	1.70	0.73	0.01	0.03	0.01	0.12	0.05	0.01	0.01	0.01	0.31
				144422	49.80	54.00	4.20	61.40	0.22	26.30	2.17	0.39	0.01	0.01	0.01	0.06	0.26	0.01	0.01	0.01	1.12
				144423	54.00	57.00	3.00	62.40	0.31	25.30	1.60	0.13	0.01	0.01	0.02	0.04	0.26	0.01	0.01	0.01	2.41
0	55.48	59.06	IF-G	144424	57.00	60.00	3.00	53.40	0.20	28.50	2.18	0.70	0.01	0.01	0.01	0.05	0.16	0.01	0.01	0.01	0.80

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
0	59.06	63.56	- Iron formation rich in chert and siderite with beds of magnetite replaced by Py and Sid. Oxidation of the remaining magnetite. IF-H - Siderite Iron formation with very low magnetite content. Composed of chert with laterance of siderite rich bands and little magnetite mostly disseminated bu in bands <1cm.	144425	60.00	63.56	3.56	43.40	0.12	37.00	2.15	1.19	0.01	0.01	0.01	0.06	0.07	0.01	0.01	0.30
0	63.56	75.60	IF-E - Magnetite rich Iron Formation composed of alternating bands of magnetite, 1mm to 30cm with alternating dark gray chert bands. Chert is locally jasper beds. All of it is ext. Fine grained. Intervals are strongly oxidized with highly develop secondary porosity.	144426 144427 144428	63.56 66.00 72.00	66.00 72.00 78.00	2.44 6.00 6.00	44.30 49.10 50.60	1.81 0.07 0.11	45.70 49.60 47.00	1.17 0.17 0.47	0.22 0.06 0.17	0.01 0.01 0.01	0.01 0.01 0.01	0.11 0.08 0.07	0.08 0.08 0.07	0.04 0.02 0.02	0.01 0.01 0.01	0.01 0.01 0.01	0.11 0.03 0.20
0	75.60	79.40	FZ - Fault zone in IF-E. Unit is brecciated and clast of chert are semi rounded. Magnetite composes the majority of the matrix. Some oxidation and Sulphides are present in the unit.	144430	78.00	81.00	3.00	49.10	0.04	46.80	0.98	0.49	0.01	0.01	0.01	0.08	0.03	0.01	0.01	0.03
0	79.40	94.77	IF-E - Magnetite rich Iron Formation composed of alternating bands of magnetite, 1mm to 30cm with alternating dark gray chert bands. Chert is locally jasper beds. All of it is ext. Fine grained. Intervals are strongly oxidized with highly develop secondary porosity.	144431 144432 144433	81.00 87.00 93.00	87.00 93.00 94.77	6.00 6.00 1.77	42.80 41.00 43.30	0.04 0.01 0.02	49.20 51.70 51.60	1.73 1.55 1.60	1.32 2.35 0.61	0.01 0.01 0.01	0.01 0.01 0.01	0.07 0.07 0.09	0.03 0.03 0.03	0.01 0.01 0.01	0.01 0.01 0.01	0.03 0.03 0.03	
0	94.77	103.90	IF-F - Iron formation composed of alternating beds of magnetite, 1mm to 2cm and beds	144434 144435	94.77 99.50	99.50 103.90	4.73 4.40	52.40 49.00	0.05 0.03	42.80 46.20	1.77 1.96	0.44 0.89	0.01 0.01	0.05 0.03	0.01 0.01	0.05 0.06	0.03 0.05	0.01 0.01	0.01 0.01	0.36 0.09

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
0	103.90	123.30	of chert. Unit is locally altered with replacement of IF by Siderite and minesotaite. Unit is fine grained and is deformed. IF-E - Magnetite rich Iron Formation composed of alternating bands of magnetite, 1mm to 30cm with alternating dark gray chert bands. Chert is locally jasper beds. All of it is ext. Fine grained. Intervals are strongly oxidized with highly develop secondary porosity. Local replacement of If by sulphides.	144436 144438	103.90 108.00	108.00 111.00	4.10 3.00	43.40 52.90	0.01 0.03	52.30 41.60	1.44 0.63	0.98 0.14	0.01 0.01	0.01 0.01	0.05 0.07	0.05 0.04	0.01 0.01	0.01 0.01	0.01 0.01	0.03 0.29
1	110.90	112.60	SLC - Cherty unit with little disseminated magnetite. Chert is white to beige with little siderite.	144439	111.00	114.00	3.00	44.30	0.03	44.80	1.84	0.84	0.01	0.01	0.01	0.07	0.07	0.01	0.01	0.03
				144440	114.00	117.00	3.00	50.70	0.03	46.20	0.57	0.21	0.01	0.01	0.01	0.09	0.06	0.01	0.01	0.03
				144441	117.00	120.00	3.00	47.70	0.05	51.80	0.27	0.51	0.01	0.01	0.01	0.10	0.04	0.01	0.01	0.03
				144442	120.00	123.30	3.30	50.10	0.14	42.70	1.06	0.72	0.01	0.01	0.01	0.07	0.06	0.01	0.01	0.86
1	120.10	121.60	IF-G - Iron formation oxidized and replaced by sulphides. Pyrite replaces magnetite and is fine to medium grained. Presence of minesotaite																	
0	123.30	138.56	IF-F - Iron formation composed of alternating beds of magnetite, 1mm to 2cm and beds of chert. Unit is locally altered with replacement of IF by Py and minesotaite. Unit is fine grained and weakly deformed. Presence of minesotaite in chert bands.	144443 144444	123.30 129.00	129.00 135.00	5.70 6.00	49.70 48.20	0.22 0.23	40.70 41.70	1.78 2.05	1.88 1.01	0.01 0.01	0.08 0.10	0.01 0.02	0.09 0.10	0.05 0.08	0.01 0.01	0.01 0.01	0.23 1.39

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
1	130.94	131.34	IF-G - Iron formation replaced by sulphides. Pyrite replaces magnetite and is fine to medium grained. Presence of minesotaite																		
1	133.56	133.66	IF-G - Iron formation replaced by sulphides. Pyrite replaces magnetite and is fine to medium grained. Presence of minesotaite																		
1	135.63	135.75	IF-G - Iron formation replaced by sulphides. Pyrite replaces magnetite and is fine to medium grained. Presence of minesotaite	144445	135.00	138.56	3.56	50.60	0.40	36.20	2.09	0.69	0.01	0.03	0.02	0.08	0.11	0.01	0.01		1.52
0	138.56	143.50	SC - Cherty unit intercalated with dark gray to black mudstone. Unit is grading to black graphitic mudstone at depth.	144447	138.56	144.00	5.44	52.80	2.84	26.70	2.96	0.61	0.01	0.06	0.13	0.04	0.21	0.01	0.01		1.00
0	143.50	147.74	SM - Mudstone dark gray to black graphitic with cherty beds 1 to 5mm. Pyrite present in bed planes (sedimentary py).																		
0	147.74	149.30	FZ - Fault zone in sedimentes with graphitic mudstones and cherty beds in rounded clasts,																		
0	149.30	180.00	SG - Light gray to greenish graywacke. Unit is sheared and deformed with weel develop																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
			S1 structures.																		

End of Lithology and Assays ;

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-**RadioHill** DDH2011.accdb*

**RQD:**

From	To	length	%ces>100	Calcu	RQP	%ces<100	tal	Recover	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%			%									
27.30	30.00	2.70	0.00	0.00	1.65	0.00	2.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Highly altered and oxidized rock
30.00	33.00	3.00	0.00	0.00	2.18	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	End of meteoritic alteration profil
33.00	36.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
36.00	39.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
39.00	42.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
42.00	45.00	3.00	0.00	0.00	0.26	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
45.00	48.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
48.00	51.00	3.00	0.00	0.00	0.54	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
51.00	54.00	3.00	0.00	0.00	0.15	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
54.00	57.00	3.00	0.00	0.00	0.84	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Sulphides and oxidized interval, high secondary porosity
57.00	60.00	3.00	0.00	0.00	0.94	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	oxidized and high secondary porosity
60.00	63.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
63.00	66.00	3.00	0.00	0.00	0.45	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	graphitic fault zone and oxidized high secondary porosity
66.00	69.00	3.00	0.00	0.00	0.80	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	High oxidation and secondary porosity
69.00	72.00	3.00	0.00	0.00	0.80	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	High oxidation and secondary porosity
72.00	75.00	3.00	0.00	0.00	0.90	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	High oxidation and secondary porosity
75.00	78.00	3.00	0.00	0.00	0.98	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	High oxidation and secondary porosity
78.00	81.00	3.00	0.00	0.00	0.25	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
81.00	84.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
84.00	87.00	3.00	0.00	0.00	0.18	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
87.00	90.00	3.00	0.00	0.00	0.33	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
90.00	93.00	3.00	0.00	0.00	0.05	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-**RadioHill DDH2011.accdb***

**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>CalculRQP</i>	<i>Pces&lt;100</i>	<i>talRecover</i>	<i>Recovery</i>	<i>Fractures</i>	<i>sacts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
93.00	96.00	3.00	0.00	0.00	0.74	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
96.00	99.00	3.00	0.00	0.00	0.39	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
99.00	102.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
102.00	105.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
105.00	108.00	3.00	0.00	0.00	0.36	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
108.00	111.00	3.00	0.00	0.00	1.09	0.00	3.00	0.00	0.00	0.00	0.00	0.00	High oxidation and secondary porosity
111.00	114.00	3.00	0.00	0.00	0.53	0.00	3.00	0.00	0.00	0.00	0.00	0.00	High oxidation and secondary porosity
114.00	117.00	3.00	0.00	0.00	0.97	0.00	3.00	0.00	0.00	0.00	0.00	0.00	High oxidation and secondary porosity
117.00	120.00	3.00	0.00	0.00	0.79	0.00	3.00	0.00	0.00	0.00	0.00	0.00	High oxidation and secondary porosity
120.00	123.00	3.00	0.00	0.00	1.33	0.00	3.00	0.00	0.00	0.00	0.00	0.00	High oxidation and secondary porosity
123.00	126.00	3.00	0.00	0.00	0.51	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
126.00	129.00	3.00	0.00	0.00	0.36	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
129.00	132.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
132.00	135.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
135.00	138.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
138.00	141.00	3.00	0.00	0.00	0.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
141.00	144.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
144.00	147.00	3.00	0.00	0.00	0.60	0.00	3.00	0.00	0.00	0.00	0.00	0.00	Fracturation along S0 with graphitic
147.00	150.00	3.00	0.00	0.00	0.53	0.00	3.00	0.00	0.00	0.00	0.00	0.00	Fault zone with graphite and fractures along S0
150.00	153.00	3.00	0.00	0.00	0.31	0.00	3.00	0.00	0.00	0.00	0.00	0.00	Fracture along S0
153.00	156.00	3.00	0.00	0.00	0.26	0.00	3.00	0.00	0.00	0.00	0.00	0.00	Fracture along S0
156.00	159.00	3.00	0.00	0.00	0.35	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
159.00	162.00	3.00	0.00	0.00	0.15	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
162.00	165.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
165.00	168.00	3.00	0.00	0.00	0.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>%ces&gt;100</i>	<i>Calcu</i>	<i>RQP</i>	<i>%ces&lt;100</i>	<i>tal</i>	<i>Recove</i>	<i>Recovery</i>	<i>Fractures</i>	<i>acts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
168.00	171.00	3.00	0.00	0.00	0.25	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
171.00	174.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
174.00	177.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
177.00	180.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

End of RQD ; 51 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
27.50	31.40	Oxidized		
48.46	49.80	Oxidized		
55.48	59.06	Oxidized		
63.56	79.40	Oxidized		
97.70	98.50	Oxidized		
107.66	129.00	Oxidized		

End of Alterations ; 6 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
27.50	34.02	IF-F			30	0	0	1	0	70	0
34.02	43.60	IF-E			50	0	0	0	0	50	0
43.60	49.80	IF-F			40	0	0	0	5	55	0
49.80	55.48	IF-F			15	0	0	0	40	45	0
55.48	59.06	IF-G			10	0	0	5	10	75	0
59.06	63.56	IF-H			10	0	0	2	50	40	0
63.56	75.60	IF-E			50	0	0	3	0	50	0
75.60	79.40	IF-E			35	0	0	5	0	60	0
79.40	94.77	IF-E			45	5	0	1	0	50	0
94.77	103.90	IF-F			25	0	0	4	20	51	0
103.90	110.90	IF-E			35	5	0	2	0	60	0
110.90	112.60	IF-H			5	0	0	1	30	65	0
112.60	120.10	IF-E			40	5	0	2	0	0	0
120.10	121.60	IF-G			30	0	0	10	0	60	0
121.60	123.30	IF-E			35	0	0	1	10	55	0
123.30	138.56	IF-F			35	0	0	5	0	60	0

End of Mineralizations ;      16 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
32.50	70.00	S0	
35.00	45.00	S0	
42.50	65.00	S0	
43.00	70.00	S0	
49.00	50.00	S0	
58.00	70.00	S0	
61.00	50.00	S0	
62.50	50.00	S0	
65.00	50.00	S0	
71.50	55.00	S0	
77.50	55.00	S1	
79.00	50.00	S1	
80.00	55.00	S0	
86.00	35.00	S0	
86.50	60.00	S0	
92.00	50.00	S0	
97.00	65.00	S0	
103.00	30.00	S0	
104.00	45.00	S0	
106.00	40.00	S0	
112.00	50.00	S0	
116.50	45.00	S0	
122.00	45.00	S0	
124.00	65.00	S0	
135.00	45.00	S0	S0

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Structures:*

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
135.00	40.00	S0	
140.00	35.00	S0	
151.00	45.00	S1	S0
155.00	40.00	S0	

End of Structures ;            29 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-15

<b>Easting:</b> 411973.80	<b>Northing:</b> 5334224.60	<b>Elevation:</b> 404.20
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 195.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> Orbit Garant Drilling
<b>Started:</b> 26/09/11	<b>Finished:</b> 03/10/11	<b>Logged By:</b> K.Sarabia
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
30.00	227.90	0.00	-45.00	EZ Shot	Inactive
100.00	178.90	0.00	-44.90	EZ Shot	Active
195.00	180.10	0.00	-45.10	EZ Shot	Active

50.00	189.00	0.00	-45.00	EZ Shot	Active
150.00	162.70	0.00	-44.80	EZ Shot	Inactive

End of Deviations ; 5 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	0.00	18.00	OVB - From 12 to 15 m fragments of IF-F. From 15 to 18 m no core drilled: void or cave (drilling maybe the historical hole).																		
0	18.00	37.75	IF-F - Banded Iron core, rich Mag beds alternating with Chert + Mag + minor Sd and Msn bedding, fractured planes and fractures with moderate oxidation, Mns and Sd associated with Mag + Chert beds, fine to ultra fine grained core, low FeOx presence.	144379 144380 144381 144382	18.00 24.00 30.00 33.00	24.00 30.00 33.00 37.75	6.00 6.00 3.00 4.75	45.20 45.00 49.90 40.10	0.08 0.05 0.13 0.06	43.90 48.90 42.30 49.40	1.58 1.42 1.51 1.72	0.61 0.42 0.33 0.77	0.01 0.01 0.01 0.01	0.05 0.04 0.06 0.04	0.01 0.01 0.01 0.01	0.09 0.11 0.09 0.09	0.05 0.04 0.08 0.04	0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01	0.09 0.31 0.61 0.09	
0	37.75	47.80	IF-H - Banded Iron Formation, minor Mag beds alternating with Sd + Chert + lean Chert and sulfides trace.	144383	37.75	42.00	4.25	57.40	0.37	26.40	1.75	0.49	0.01	0.03	0.02	0.06	0.11	0.01	0.01	1.15	
1	39.72	42.00	IF-G - Banded and deformed sedimentary lean Chert + minor Sd + Mns beds, rusty and fresh sulfides (Py) up to 10-15 % and locally 30% of Py replacing rich Mag bands.																		
				144384	42.00	47.80	5.80	46.10	0.16	37.60	1.44	0.46	0.01	0.05	0.01	0.10	0.06	0.01	0.01	0.92	
1	45.00	47.55	IF-G - Banded Chert + minor Mag beds, strong to moderate sulfides presence, Py up to 25-35% fine disseminated in the replaced Mgt bedding, moderate oxidized core.																		
0	47.80	52.10	IF-F - Banded Iron formation, moderate to rich Mag beds alternating with Chert + lean	144385	47.80	52.10	4.30	38.50	0.01	44.30	2.08	2.59	0.01	0.01	0.01	0.09	0.06	0.01	0.01	0.09	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
0	52.10	68.80	Mag and Sd replacing Mag bands, sulfides trace.																		
			IF-H	144386	52.10	57.00	4.90	42.50	0.12	37.00	2.33	0.93	0.02	0.05	0.01	0.08	0.12	0.01	0.01	1.09	
			- Banded to brecciated Iron formation, rich Sd + Chert beds alternating with minor to lean Mag bands, sulfides trace up to 10%.	144389	57.00	63.00	6.00	44.80	0.55	33.60	2.45	0.29	0.02	0.05	0.02	0.05	0.22	0.01	0.01	6.21	
1	59.05	60.45	IF-G - Iron formation with strong presence of sulfides, Mag bands replaced by Mns and Py up to 35-40%.																		
1	63.00	64.22	IF-G - Iron formation with strong sulfides concentration in rich Mag, brecciated white cherty core + siderite filling fractures and beds.	144390	63.00	68.80	5.80	48.20	0.21	32.00	2.38	0.42	0.01	0.04	0.01	0.09	0.19	0.01	0.01	2.51	
0	68.80	82.10	IF-F - Banded Iron Formation, rich to minor Mag beds alternating with Chert + lean Mag and moderate Sd bedding, fine to ultra fine grained, brecciated cherty core, Mag bands and fragments replaced by Sd + Mns, sulfides trace.	144391 144392 144393	68.80 75.00 78.00	75.00 78.00 82.10	6.20 3.00 4.10	40.00 42.00 43.70	0.10 0.01 0.04	40.00 39.80 35.40	2.04 1.85 2.73	0.92 0.77 1.11	0.01 0.01 0.01	0.05 0.01 0.02	0.01 0.01 0.01	0.12 0.14 0.11	0.09 0.07 0.13	0.01 0.01 0.01	0.01 0.01 0.01	0.15 0.09 0.08	
0	82.10	87.65	IF-G - Siderite and lean Mag Iron formation with local semi-massive sulfides bands, brecciated and deformed core, Mns + Sd trace up to 10-12%.	144394	82.10	87.65	5.55	52.90	0.30	30.20	1.90	0.18	0.01	0.07	0.02	0.06	0.28	0.01	0.01	7.60	
0	87.65	94.65	IF-H - Brecciated and deformed Iron formation, rich Sd + Chert + lean Mag bedding, Mns trace and filling fractures and beds with	144395 144396	87.65 90.65	90.65 94.65	3.00 4.00	51.70 42.60	0.11 0.07	30.10 37.50	1.98 1.79	0.39 0.39	0.01 0.01	0.03 0.02	0.01 0.01	0.06 0.09	0.13 0.09	0.01 0.01	0.01 0.01	0.06 0.07	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
0	94.65	156.21	Mag, sulfides trace up to 3-4% (Py). IF-F - Banded Iron formation of rich to massive (local) Mag beds alternating with Chert + minor Mag - Sd - Mns bedding, sulfides trace up to 3-4%, bracciated txture in the Chert + Sd bands and folded rich Mag + white Chert bedding. Vein of calcite + chlorite croos-cutting the unit, weak HCl response. Jasper trace filling Mgt beds. Locally strong Pyrite fine disseminaed in a rich Mag band.	144397 144398	94.65 99.00	99.00 102.00	4.35 3.00	42.50 40.40	0.01 0.06	47.00 46.50	1.51 1.46	0.24 0.28	0.01 0.01	0.01 0.01	0.01 0.01	0.09 0.07	0.06 0.08	0.01 0.01	0.01 0.01	0.01 0.01	0.24 0.18
1	102.00	104.60	IF-H - Brecciated to deformed Iron Formation, rich Sd + lean Mag + rich Chert bands.	144400	102.00	104.60	2.60	43.50	0.07	36.60	1.86	0.58	0.01	0.02	0.01	0.06	0.10	0.01	0.01	0.01	0.54
				144401	104.60	108.00	3.40	43.70	0.10	43.30	1.70	0.94	0.01	0.01	0.01	0.07	0.07	0.01	0.01	0.01	0.07
				144402	108.00	114.00	6.00	43.60	0.16	42.00	2.19	1.52	0.01	0.01	0.01	0.11	0.07	0.01	0.01	0.01	0.10
				144403	114.00	120.00	6.00	46.80	0.21	36.20	2.33	1.76	0.01	0.05	0.01	0.08	0.09	0.01	0.01	0.01	0.07
				144404	120.00	126.00	6.00	51.80	0.20	37.10	2.47	1.72	0.01	0.09	0.01	0.08	0.08	0.01	0.01	0.01	0.08
				144405	126.00	132.00	6.00	46.80	0.21	43.40	2.73	1.89	0.01	0.11	0.01	0.10	0.09	0.01	0.01	0.01	0.06
				144406	132.00	135.00	3.00	50.20	0.17	41.00	1.92	0.38	0.01	0.08	0.01	0.10	0.11	0.01	0.01	0.01	0.09
				144407	135.00	141.00	6.00	49.40	0.44	43.40	2.14	0.76	0.01	0.09	0.04	0.10	0.09	0.01	0.01	0.01	0.11
				144408	141.00	147.00	6.00	50.40	0.14	42.60	2.32	0.85	0.01	0.08	0.01	0.11	0.07	0.01	0.01	0.01	0.07
				144409	147.00	153.00	6.00	51.10	0.26	39.80	1.89	0.51	0.02	0.07	0.01	0.10	0.06	0.01	0.01	0.01	0.95
				144410	153.00	156.21	3.21	50.60	0.54	37.00	1.83	0.44	0.02	0.07	0.06	0.09	0.10	0.02	0.01	0.01	0.38
0	156.21	165.45	IF-H - Brecciated Iron Formation, moderate to minor Sd + Chert + lean Mag bands, Chlorite filling fractures and matrix, pale gray color, ultra fine to fine grained core,	144411 144412	156.21 162.00	162.00 165.45	5.79 3.45	44.20 39.60	2.05 2.46	32.20 34.70	3.40 3.99	1.81 2.00	0.01 0.01	0.02 0.01	0.12 0.12	0.11 0.06	0.14 0.25	0.01 0.01	0.01 0.01	0.01 0.01	0.28 0.77

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %
0	165.45	195.00	sulfides trace up to 4% , local Py filling fractures, weak HCl response. Chlorite + Calcite alteration at the lower contct. Upper contact with more mag concentration than the lower contact. SM - Sedimentary Mudstone alternating with Graywacke beds, pale to dark green-apple color (upper and lower contact). Ultra fine to medium grained core, moderate silicification, strong to moderate CaCO3 presence in matrix, fractures and veinlets, Epidote + Chlorite and Cal alteration. From 175.90 to 180.95 m, black and dark gray Shale + Py (10%) is observed, weak HCl response and ultra fine to fine grained core.	144414	165.45	168.95	3.50	55.50	14.20	7.81	3.02	5.18	2.13	2.30	0.55	0.11	0.10	0.05	0.03	0.28

End of Lithology and Assays ;

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcul</i>	<i>RQPces&lt;100</i>	<i>talRecover</i>	<i>Recovery</i>	<i>Fractures</i>	<i>acts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
18.00	21.00	3.00	0.00	0.00	1.05	0.00	1.60	0.00	0.00	0.00	0.00	0.00	
21.00	24.00	3.00	0.00	0.00	1.05	0.00	2.55	0.00	0.00	0.00	0.00	0.00	
24.00	27.00	3.00	0.00	0.00	1.90	0.00	1.90	0.00	0.00	0.00	0.00	0.00	
27.00	30.00	3.00	0.00	0.00	1.30	0.00	2.30	0.00	0.00	0.00	0.00	0.00	
30.00	33.00	3.00	0.00	0.00	1.25	0.00	2.25	0.00	0.00	0.00	0.00	0.00	
33.00	36.00	3.00	0.00	0.00	0.95	0.00	2.30	0.00	0.00	0.00	0.00	0.00	
36.00	39.00	3.00	0.00	0.00	1.10	0.00	2.50	0.00	0.00	0.00	0.00	0.00	
39.00	42.00	3.00	0.00	0.00	1.30	0.00	2.50	0.00	0.00	0.00	0.00	0.00	
42.00	45.00	3.00	0.00	0.00	1.20	0.00	2.40	0.00	0.00	0.00	0.00	0.00	
45.00	48.00	3.00	0.00	0.00	1.70	0.00	1.85	0.00	0.00	0.00	0.00	0.00	
48.00	51.00	3.00	0.00	0.00	0.90	0.00	2.50	0.00	0.00	0.00	0.00	0.00	
51.00	54.00	3.00	0.00	0.00	1.10	0.00	2.45	0.00	0.00	0.00	0.00	0.00	
54.00	57.00	3.00	0.00	0.00	0.85	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
57.00	60.00	3.00	0.00	0.00	1.45	0.00	2.40	0.00	0.00	0.00	0.00	0.00	
60.00	63.00	3.00	0.00	0.00	1.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	
63.00	66.00	3.00	0.00	0.00	0.95	0.00	2.60	0.00	0.00	0.00	0.00	0.00	
66.00	69.00	3.00	0.00	0.00	1.00	0.00	2.55	0.00	0.00	0.00	0.00	0.00	
69.00	72.00	3.00	0.00	0.00	0.95	0.00	2.55	0.00	0.00	0.00	0.00	0.00	
72.00	75.00	3.00	0.00	0.00	0.85	0.00	2.70	0.00	0.00	0.00	0.00	0.00	
75.00	78.00	3.00	0.00	0.00	0.70	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
78.00	81.00	3.00	0.00	0.00	1.60	0.00	2.50	0.00	0.00	0.00	0.00	0.00	
81.00	84.00	3.00	0.00	0.00	1.15	0.00	2.75	0.00	0.00	0.00	0.00	0.00	
84.00	87.00	3.00	0.00	0.00	1.15	0.00	2.60	0.00	0.00	0.00	0.00	0.00	
87.00	90.00	3.00	0.00	0.00	1.85	0.00	2.20	0.00	0.00	0.00	0.00	0.00	
90.00	93.00	3.00	0.00	0.00	1.05	0.00	2.25	0.00	0.00	0.00	0.00	0.00	
93.00	96.00	3.00	0.00	0.00	2.05	0.00	2.25	0.00	0.00	0.00	0.00	0.00	
96.00	99.00	3.00	0.00	0.00	1.30	0.00	2.30	0.00	0.00	0.00	0.00	0.00	
99.00	102.00	3.00	0.00	0.00	0.60	0.00	2.40	0.00	0.00	0.00	0.00	0.00	
102.00	105.00	3.00	0.00	0.00	0.80	0.00	2.90	0.00	0.00	0.00	0.00	0.00	



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcul</i>	<i>RQPces&lt;100</i>	<i>alRecover</i>	<i>Recovery</i>	<i>Fractures</i>	<i>acts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
105.00	108.00	3.00	0.00	0.00	1.05	0.00	2.55	0.00	0.00	0.00	0.00	0.00	
108.00	111.00	3.00	0.00	0.00	0.75	0.00	2.75	0.00	0.00	0.00	0.00	0.00	
111.00	114.00	3.00	0.00	0.00	1.00	0.00	2.55	0.00	0.00	0.00	0.00	0.00	
114.00	117.00	3.00	0.00	0.00	1.00	0.00	2.50	0.00	0.00	0.00	0.00	0.00	
117.00	120.00	3.00	0.00	0.00	0.25	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
120.00	123.00	3.00	0.00	0.00	0.35	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
123.00	126.00	3.00	0.00	0.00	0.25	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
126.00	129.00	3.00	0.00	0.00	0.35	0.00	2.95	0.00	0.00	0.00	0.00	0.00	
129.00	132.00	3.00	0.00	0.00	0.30	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
132.00	135.00	3.00	0.00	0.00	1.15	0.00	2.55	0.00	0.00	0.00	0.00	0.00	
135.00	138.00	3.00	0.00	0.00	0.45	0.00	2.70	0.00	0.00	0.00	0.00	0.00	
138.00	141.00	3.00	0.00	0.00	1.50	0.00	2.45	0.00	0.00	0.00	0.00	0.00	
141.00	144.00	3.00	0.00	0.00	0.25	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
144.00	147.00	3.00	0.00	0.00	0.45	0.00	2.80	0.00	0.00	0.00	0.00	0.00	
147.00	150.00	3.00	0.00	0.00	0.30	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
150.00	153.00	3.00	0.00	0.00	0.45	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
153.00	156.00	3.00	0.00	0.00	0.85	0.00	2.50	0.00	0.00	0.00	0.00	0.00	
156.00	159.00	3.00	0.00	0.00	1.10	0.00	2.75	0.00	0.00	0.00	0.00	0.00	
159.00	162.00	3.00	0.00	0.00	0.90	0.00	2.60	0.00	0.00	0.00	0.00	0.00	
162.00	165.00	3.00	0.00	0.00	1.05	0.00	2.75	0.00	0.00	0.00	0.00	0.00	
165.00	168.00	3.00	0.00	0.00	0.80	0.00	2.50	0.00	0.00	0.00	0.00	0.00	
168.00	171.00	3.00	0.00	0.00	1.15	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
171.00	174.00	3.00	0.00	0.00	0.90	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
174.00	177.00	3.00	0.00	0.00	0.75	0.00	2.75	0.00	0.00	0.00	0.00	0.00	
177.00	180.00	3.00	0.00	0.00	0.35	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
180.00	183.00	3.00	0.00	0.00	0.65	0.00	2.60	0.00	0.00	0.00	0.00	0.00	
183.00	186.00	3.00	0.00	0.00	1.05	0.00	2.70	0.00	0.00	0.00	0.00	0.00	
186.00	189.00	3.00	0.00	0.00	0.35	0.00	2.75	0.00	0.00	0.00	0.00	0.00	
189.00	192.00	3.00	0.00	0.00	0.70	0.00	2.75	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcu</i>	<i>RQPces&lt;100</i>	<i>tal</i>	<i>Recove</i>	<i>Recovery</i>	<i>Fractures</i>	<i>acts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
192.00	195.00	3.00	0.00	0.00	0.60	0.00	2.80	0.00	0.00	0.00	0.00	0.00	0.00	

End of RQD ; 59 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
18.00	37.75	Oxidized		

End of Alterations ; 1 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
18.00	37.75	IF-F			35	1	0	1	8	55	0
37.75	47.80	IF-H			10	0	0	15	25	50	0
47.80	52.10	IF-F			25	0	0	1	5	70	0
52.10	68.80	IF-H			8	0	0	12	35	45	0
68.80	82.10	IF-H			16	0	0	1	10	73	0
82.10	87.65	IF-G			8	0	0	25	12	55	0
87.65	94.65	IF-H			8	0	0	4	25	62	0
94.65	138.00	IF-F			35	0	0	3	12	50	0
94.65	156.21	IF-F			30	0	0	3	7	60	0
102.00	104.60	IF-H			5	0	0	1	30	64	0
156.21	165.45	IF-H			8	0	0	4	15	73	0

End of Mineralizations ; 11 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
18.60	50.00	S0	
21.60	50.00	S0	
21.70	50.00	S0	
23.80	40.00	S0	
24.30	50.00	S0	
26.00	40.00	S0	
27.10	65.00	S0	
27.45	60.00	S0	
29.50	50.00	S0	
31.00	50.00	S0	
33.00	50.00	S0	
33.40	60.00	S0	
35.00	60.00	S0	
36.00	55.00	S0	
37.60	60.00	S0	
38.10	70.00	S0	
38.60	65.00	S0	
38.90	65.00	S0	
42.00	40.00	S0	
45.00	60.00	S0	
45.40	70.00	S0	
47.60	50.00	S0	
48.15	55.00	S0	
49.50	0.00	S0	
51.00	40.00	S0	



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
51.10	55.00	S0	
51.80	40.00	S0	
52.25	40.00	S0	
53.00	50.00	S0	
56.60	60.00	S0	
56.70	70.00	S0	
57.20	60.00	S0	
58.00	60.00	S0	
66.30	60.00	S0	
67.00	55.00	S0	
69.00	50.00	S0	s0
71.80	70.00	S0	
72.10	60.00	S0	
75.00	60.00	S0	
75.50	65.00	S0	
76.00	65.00	S0	
77.70	70.00	S0	
78.15	60.00	S0	
82.00	70.00	S0	
83.00	60.00	S0	
84.50	40.00	S0	Py + Mns bands
87.00	60.00	S0	
87.70	50.00	S0	
90.65	75.00	S0	
91.20	70.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
95.50	60.00	S0	
96.00	60.00	S0	
97.00	60.00	S0	
99.00	65.00	S0	
107.50	50.00	S0	
107.90	70.00	S0	
108.40	70.00	S0	
109.00	50.00	S0	Jasper trace
111.00	30.00	S0	
112.00	85.00	S0	
113.00	50.00	S0	
114.50	65.00	S0	
117.00	40.00	S0	
118.40	40.00	S0	
118.50	50.00	S0	
119.60	40.00	S0	
125.60	45.00	S0	
127.00	60.00	S0	
129.50	70.00	S0	
138.50	70.00	S0	
139.25	55.00	S0	
140.80	50.00	S0	
141.10	60.00	S0	
143.00	60.00	S0	
143.70	50.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
144.40	60.00	S0	
147.15	65.00	S0	
150.00	60.00	S0	
152.00	50.00	S0	
152.50	45.00	S0	
153.00	60.00	S0	
153.55	55.00	S0	
155.50	55.00	S0	
156.00	60.00	S0	
157.50	65.00	S0	
157.75	60.00	S0	
159.15	75.00	S0	
162.40	55.00	S0	
165.45	45.00	Cnt	lower contact IFF- SM
168.00	80.00	S0	
173.50	70.00	S0	
175.80	70.00	Cnt	Upper contact SM- Black shale
180.90	65.00	S0	Lower contact Black Shale- SM
183.00	50.00	S0	
184.00	55.00	S0	
186.00	60.00	S0	
189.00	80.00	S0	
191.00	50.00	S0	
192.00	60.00	S0	
194.60	60.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Structures:*

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
End of Structures ;		100 record(s) printed.	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-16

<b>Easting:</b> 411820.80	<b>Northing:</b> 5334285.00	<b>Elevation:</b> 404.30
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 187.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> Orbit Garant Drilling
<b>Started:</b> 20/09/11	<b>Finished:</b> 26/09/11	<b>Logged By:</b> K.Sarabia
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
24.00	157.20	0.00	-45.70	EZ Shot	Inactive
102.00	168.80	0.00	-46.20	EZ Shot	Inactive

51.00	315.20	0.00	-46.10	EZ Shot	Inactive
150.00	163.70	0.00	-46.70	EZ Shot	Inactive

End of Deviations ; 4 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	<i>%</i>	
0	0.00	9.00	OVB - no core recovered																		
0	9.00	36.00	IF-F - Banded Iron formation, some beds are folded, rich Mag bands alternating with Chert + moderate Mag and Mns bedding, the amount of silica is between 15 to 75%, the upper contact has a moderate- low oxidized broken planes and fractures, fine to ultra fine grained core, Py trace.	144353 144354 144355 144356 144357	11.12 15.00 21.00 27.00 33.00	15.00 21.00 27.00 33.00 36.00	3.88 6.00 6.00 6.00 3.00	54.00 48.40 51.20 46.80 48.20	0.38 0.29 0.52 0.18 0.89	42.00 47.30 41.70 47.50 42.10	1.45 1.72 2.28 2.14 3.06	0.83 0.69 1.04 0.80 0.46	0.01 0.01 0.02 0.01 0.01	0.14 0.11 0.19 0.08 0.07	0.02 0.01 0.02 0.01 0.03	0.13 0.13 0.12 0.13 0.08	0.04 0.04 0.08 0.06 0.12	0.01 0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01 0.01	0.02 0.01 0.02 0.01 1.57	
0	36.00	42.12	IF-G - Banded Iron formation, rich to moderate Mag bands alternating with white Chert + Mns bedding, fine to ultra fine grained texture, Mns present in the cherty bands + Py is replacing some Mag up to 8-10%.	144359	36.00	42.12	6.12	56.50	0.69	33.60	2.10	0.88	0.01	0.10	0.04	0.11	0.11	0.01	0.01	0.89	
0	42.12	50.00	IF-F - Banded Iron formation, rich Mag bands alternating with Chert + Mns + Mag beds, sulfides trace.	144360 144361	42.12 48.00	48.00 50.00	5.88 2.00	46.90 51.90	0.16 0.29	49.90 42.70	1.43 1.91	0.68 0.99	0.02 0.02	0.06 0.08	0.01 0.02	0.13 0.17	0.03 0.06	0.01 0.01	0.01 0.01	0.06 0.15	
0	50.00	61.95	IF-G - Banded Iron formation, minor to moderate Mag beds alternating with Chert + Mns at the upper contact. At the bottom, strong white Chert + Mns and Mag minor bedding, Py and Po are replacing Mag beds and also are present in veinlets up to 5-8%, brecciated texture in Cherty bands.	144362 144363 144364	50.00 54.00 60.00	54.00 60.00 63.00	4.00 6.00 3.00	53.50 57.40 68.10	2.14 0.42 0.15	35.30 34.60 27.10	2.48 1.82 1.58	1.20 0.33 0.47	0.05 0.01 0.01	0.09 0.09 0.06	0.13 0.02 0.01	0.15 0.10 0.05	0.08 0.10 0.07	0.01 0.01 0.01	0.01 0.01 0.01	1.35 1.63 0.33	
0	61.95	104.65	IF-F - Banded Iron formation, rich Mag beds alternating with Chert + Mns + minor Mag bedding, folded and brecciated bands, sulfides trace up to 4%. Fine to ultra fine grained core.	144365 144366 144367 144368 144369	63.00 69.00 75.00 81.00 84.00	69.00 75.00 81.00 84.00 87.00	6.00 6.00 6.00 3.00 3.00	51.00 48.00 48.60 46.10 53.90	0.12 0.08 0.07 0.07 0.29	46.30 48.80 49.00 51.40 40.50	1.45 1.64 1.32 1.59 1.66	0.70 0.71 0.56 0.49 0.61	0.01 0.01 0.01 0.03 0.01	0.06 0.05 0.05 0.05 0.08	0.01 0.01 0.01 0.01 0.02	0.13 0.13 0.12 0.09 0.09	0.03 0.03 0.02 0.02 0.06	0.01 0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01 0.01	0.13 0.17 0.16 0.22 2.60	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
2	85.60	85.80	IF-G - Local Py semi-massive up to 45-50% (15-20 cm) replacing a rich Mag band. AC: 50 degrees.	144370	87.00	93.00	6.00	49.30	0.07	48.00	1.67	0.60	0.01	0.05	0.01	0.08	0.04	0.01	0.01	0.07
				144371	93.00	99.00	6.00	49.80	0.15	42.50	3.94	0.86	0.01	0.03	0.01	0.07	0.21	0.01	0.01	0.07
				144372	99.00	105.00	6.00	54.30	0.24	36.30	3.34	1.56	0.01	0.05	0.01	0.05	0.20	0.01	0.01	3.31
2	101.65	102.00	IF-G - Sulfides replacing rich Mag bands and fragments of IF, deformed bedding and brecciated core. Py up to less than 65%.																	
0	104.65	123.00	IF-G - Banded Iron formation, rich to moderate Mag beds alternating with Chert + Mns + lean to moderate Mag. Some bedding is folded and deformed, sulfides filling the bedding and some fractures up to 20-25% (Py >> Po). Mns + Py are replacing rich Mag beds.	144373	105.00	108.60	3.60	68.30	0.11	24.40	2.26	0.28	0.01	0.05	0.01	0.03	0.22	0.01	0.01	3.58
				144375	108.60	114.68	6.08	56.10	0.06	36.90	3.61	0.90	0.01	0.04	0.01	0.07	0.17	0.01	0.01	0.26
				144376	114.68	120.00	5.32	51.10	1.84	36.90	3.64	0.56	0.01	0.11	0.14	0.04	0.25	0.01	0.01	4.77
				144377	120.00	123.00	3.00	47.60	0.44	41.00	2.90	0.83	0.01	0.10	0.02	0.02	0.25	0.01	0.01	7.94
0	123.00	187.00	IDB - Intermediate intrusive rock, very fine to medium grained Diabase, moderate Chl, CaCO3 and Epidote alteration, broken planes with 55 degrees to AC, very fractured core, veins and veinlets with Cal and local Epidote. Extremely to moderate broken and fractured core. At 168 m moderate to strong Chlorite and minor CaCO3 + Epidote alteration. HCl response only in fractured planes and veinlets.	144378	123.00	126.00	3.00	49.60	14.60	15.50	6.47	5.25	2.27	0.54	0.97	0.09	0.22	0.01	0.05	0.06



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Lithology and Assays:*

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%

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End of Lithology and Assays ;

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
9.00	12.00	3.00	0.00	0.00	2.30	0.00	0.83	0.00	0.00	0.00	0.00	0.00	
12.00	15.00	3.00	0.00	0.00	1.05	0.00	2.55	0.00	0.00	0.00	0.00	0.00	
15.00	18.00	3.00	0.00	0.00	0.85	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
18.00	21.00	3.00	0.00	0.00	1.20	0.00	2.40	0.00	0.00	0.00	0.00	0.00	
21.00	24.00	3.00	0.00	0.00	1.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	
24.00	27.00	3.00	0.00	0.00	1.30	0.00	2.40	0.00	0.00	0.00	0.00	0.00	
27.00	30.00	3.00	0.00	0.00	0.75	0.00	2.60	0.00	0.00	0.00	0.00	0.00	
30.00	33.00	3.00	0.00	0.00	0.50	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
33.00	36.00	3.00	0.00	0.00	1.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	
36.00	39.00	3.00	0.00	0.00	1.25	0.00	2.50	0.00	0.00	0.00	0.00	0.00	
39.00	42.00	3.00	0.00	0.00	1.10	0.00	2.50	0.00	0.00	0.00	0.00	0.00	
42.00	45.00	3.00	0.00	0.00	0.95	0.00	2.65	0.00	0.00	0.00	0.00	0.00	
45.00	48.00	3.00	0.00	0.00	1.05	0.00	2.65	0.00	0.00	0.00	0.00	0.00	
48.00	51.00	3.00	0.00	0.00	0.95	0.00	2.55	0.00	0.00	0.00	0.00	0.00	
51.00	54.00	3.00	0.00	0.00	0.90	0.00	2.75	0.00	0.00	0.00	0.00	0.00	
54.00	57.00	3.00	0.00	0.00	1.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	
57.00	60.00	3.00	0.00	0.00	0.55	0.00	2.80	0.00	0.00	0.00	0.00	0.00	
60.00	63.00	3.00	0.00	0.00	0.60	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
63.00	66.00	3.00	0.00	0.00	0.45	0.00	2.75	0.00	0.00	0.00	0.00	0.00	
66.00	69.00	3.00	0.00	0.00	0.35	0.00	2.80	0.00	0.00	0.00	0.00	0.00	
69.00	72.00	3.00	0.00	0.00	0.35	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
72.00	75.00	3.00	0.00	0.00	0.25	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
75.00	78.00	3.00	0.00	0.00	0.45	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
78.00	81.00	3.00	0.00	0.00	0.75	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
81.00	84.00	3.00	0.00	0.00	0.40	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
84.00	87.00	3.00	0.00	0.00	0.45	0.00	2.70	0.00	0.00	0.00	0.00	0.00	
87.00	90.00	3.00	0.00	0.00	0.65	0.00	2.60	0.00	0.00	0.00	0.00	0.00	
90.00	93.00	3.00	0.00	0.00	1.30	0.00	2.65	0.00	0.00	0.00	0.00	0.00	
93.00	96.00	3.00	0.00	0.00	1.45	0.00	2.50	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
96.00	99.00	3.00	0.00	0.00	1.30	0.00	2.55	0.00	0.00	0.00	0.00	0.00	
99.00	102.00	3.00	0.00	0.00	0.65	0.00	2.65	0.00	0.00	0.00	0.00	0.00	
102.00	105.00	3.00	0.00	0.00	1.00	0.00	2.55	0.00	0.00	0.00	0.00	0.00	
105.00	108.00	3.00	0.00	0.00	0.65	0.00	2.45	0.00	0.00	0.00	0.00	0.00	
108.00	111.00	3.00	0.00	0.00	0.50	0.00	2.75	0.00	0.00	0.00	0.00	0.00	
111.00	114.00	3.00	0.00	0.00	0.25	0.00	2.95	0.00	0.00	0.00	0.00	0.00	
114.00	117.00	3.00	0.00	0.00	0.50	0.00	2.60	0.00	0.00	0.00	0.00	0.00	
117.00	120.00	3.00	0.00	0.00	1.00	0.00	2.70	0.00	0.00	0.00	0.00	0.00	
120.00	123.00	3.00	0.00	0.00	0.35	0.00	2.95	0.00	0.00	0.00	0.00	0.00	
123.00	126.00	3.00	0.00	0.00	1.45	0.00	2.50	0.00	0.00	0.00	0.00	0.00	
126.00	129.00	3.00	0.00	0.00	1.60	0.00	2.20	0.00	0.00	0.00	0.00	0.00	
129.00	132.00	3.00	0.00	0.00	1.30	0.00	2.65	0.00	0.00	0.00	0.00	0.00	
132.00	135.00	3.00	0.00	0.00	0.95	0.00	2.75	0.00	0.00	0.00	0.00	0.00	
135.00	138.00	3.00	0.00	0.00	0.80	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
138.00	141.00	3.00	0.00	0.00	0.90	0.00	2.55	0.00	0.00	0.00	0.00	0.00	
141.00	144.00	3.00	0.00	0.00	1.90	0.00	2.50	0.00	0.00	0.00	0.00	0.00	
144.00	147.00	3.00	0.00	0.00	2.30	0.00	2.45	0.00	0.00	0.00	0.00	0.00	
147.00	150.00	3.00	0.00	0.00	2.15	0.00	2.10	0.00	0.00	0.00	0.00	0.00	
150.00	153.00	3.00	0.00	0.00	1.80	0.00	2.50	0.00	0.00	0.00	0.00	0.00	
153.00	156.00	3.00	0.00	0.00	1.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	
156.00	159.00	3.00	0.00	0.00	0.95	0.00	2.75	0.00	0.00	0.00	0.00	0.00	
159.00	162.00	3.00	0.00	0.00	1.00	0.00	2.60	0.00	0.00	0.00	0.00	0.00	
162.00	165.00	3.00	0.00	0.00	1.75	0.00	2.70	0.00	0.00	0.00	0.00	0.00	
165.00	168.00	3.00	0.00	0.00	2.25	0.00	2.50	0.00	0.00	0.00	0.00	0.00	
168.00	171.00	3.00	0.00	0.00	1.90	0.00	1.90	0.00	0.00	0.00	0.00	0.00	
171.00	174.00	3.00	0.00	0.00	2.70	0.00	1.75	0.00	0.00	0.00	0.00	0.00	
174.00	177.00	3.00	0.00	0.00	1.75	0.00	2.30	0.00	0.00	0.00	0.00	0.00	
177.00	180.00	3.00	0.00	0.00	2.10	0.00	2.05	0.00	0.00	0.00	0.00	0.00	
180.00	183.00	3.00	0.00	0.00	1.95	0.00	2.20	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcu</i>	<i>RQPces&lt;100</i>	<i>tal</i>	<i>Recove</i>	<i>Recovery</i>	<i>Fractures</i>	<i>sacts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
183.00	186.00	3.00	0.00	0.00	1.75	0.00	2.30	0.00	0.00	0.00	0.00	0.00	0.00	
186.00	187.00	1.00	0.00	0.00	0.60	0.00	0.70	0.00	0.00	0.00	0.00	0.00	0.00	

End of RQD ;      60 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
11.12	22.37	Oxidized		

End of Alterations ; 1 record(s) printed.





*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
9.00	36.00	IF-F			40	0	0	1	0	59	0
36.00	42.12	IF-G			30	0	2	8	0	60	0
42.12	50.00	IF-F			35	0	0	1	0	64	0
50.00	61.95	IF-G			20	0	2	8	0	68	0
61.65	104.65	IF-F			35	0	0	8	2	55	0
104.65	123.00	IF-G			30	0	1	25	0	44	0

End of Mineralizations ;      6 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
12.00	40.00	S0	
12.20	45.00	S0	
15.30	50.00	S0	
17.80	40.00	S0	
19.00	40.00	S0	
21.00	35.00	S0	
24.30	45.00	S0	
25.50	65.00	S0	
27.00	45.00	S0	
27.60	50.00	S0	
29.00	50.00	S0	
30.40	50.00	S0	
32.00	45.00	S0	
33.00	45.00	S0	
35.80	35.00	S0	
37.00	45.00	S0	
39.20	50.00	S0	
42.00	30.00	S0	
43.50	45.00	S0	
44.00	40.00	S0	
45.00	60.00	S0	
48.40	40.00	S0	
50.00	50.00	S0	
51.00	45.00	S0	
54.00	70.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
57.20	65.00	S0	
59.00	60.00	S0	
60.50	35.00	S0	
62.00	40.00	S0	
63.00	60.00	Vcc	+ EP
63.50	40.00	S0	
65.00	60.00	Vcc	
65.50	35.00	S0	
67.00	45.00	S0	
68.25	40.00	Vcc	
70.00	30.00	S0	
72.00	65.00	S0	
73.00	30.00	S0	
74.00	60.00	S0	
74.20	65.00	S0	
76.00	50.00	S0	
76.90	35.00	S0	
77.20	55.00	S0	
77.80	60.00	Vcc	
81.50	50.00	S0	
84.20	65.00	S0	
85.50	60.00	S0	
87.00	50.00	S0	
88.00	45.00	S0	
90.30	50.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
93.15	45.00	S0	
101.50	55.00	S0	
103.00	65.00	S0	
103.50	55.00	S0	
104.80	60.00	S0	
107.70	50.00	S0	
116.00	55.00	S0	
120.30	40.00	S0	fractured plane
127.00	55.00	S0	fractured plane
132.00	55.00	S0	fractured plane
142.00	30.00	S0	fractured plane
143.00	50.00	S0	
156.00	55.00	S0	
159.00	55.00	S0	
185.00	30.00	S0	fractured plane
186.20	65.00	S0	
187.00	40.00	Vcc	+ Ep

End of Structures ;           67 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-17

<b>Easting:</b> 411649.90	<b>Northing:</b> 5334340.00	<b>Elevation:</b> 410.00
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 201.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> Orbit Garant
<b>Started:</b> 16-09-11	<b>Finished:</b> 20-09-11	<b>Logged By:</b> J-P Paiement
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
21.00	213.80	0.00	-45.00	EZ Shot	Inactive
100.00	244.30	0.00	-44.40	EZ Shot	Inactive
200.00	180.40	0.00	-44.50	EZ Shot	Active

50.00	239.90	0.00	-44.90	EZ Shot	Inactive
150.00	181.90	0.00	-44.10	EZ Shot	Active

End of Deviations ; 5 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
0	0.00	6.00	OVB - no core recovered.																		
0	6.00	27.00	SLC - Banded core, Cherty iron formation composed up to 75% chert matrix with cm lean Mag beds, ultra fine grained rock. Brecciated texture is also present, silicified mudstone beds, sulfides trace.	144319	24.00	27.00	3.00	49.10	0.61	30.50	2.28	1.12	0.03	0.02	0.02	0.16	0.06	0.01	0.01	0.51	
0	27.00	32.60	IF-G - Deformed to banded Iron formation, sulfides (Py, Ccp and Po) filling fractures up to 10-12%, replaced Mag bands with Mns, Py and Po. Folded Po bands, hard to soft core, presence of Chlorite at the sulfide layers.	144320	27.00	33.00	6.00	37.10	3.60	38.90	2.78	1.29	0.08	0.04	0.12	0.13	0.20	0.01	0.01	6.92	
0	32.60	41.00	SLC - Pale gray to white Cherty iron formation, lean Mag bands with micas (Chl and/or Bt), local sulfides presence, Py -Po trace up to less than 4%. Silicified to soft core. Brecciated texture, fine to ultra fine grained rock.	144321	33.00	36.00	3.00	62.80	0.49	22.70	2.00	0.47	0.01	0.08	0.02	0.06	0.20	0.01	0.01	1.02	
0	41.00	54.26	IF-G - Brecciated to banded Iron Formation, pale gray to white Cherty core with cm to mm rich Mag bands, lean Mag + Mns + Po bands, sulfides fine disseminated in veinlets + fractures up to 8-10% and locally up to 20% (Po). Fine to ultra fine grained rock.	144322 144323 144324	41.00 45.00 51.00	45.00 51.00 57.00	4.00 6.00 6.00	68.20 59.50 69.30	0.56 1.67 0.47	20.20 27.00 23.40	1.67 2.20 1.84	0.51 0.67 0.65	0.04 0.08 0.05	0.14 0.28 0.17	0.02 0.07 0.02	0.12 0.08 0.12	0.10 0.15 0.08	0.01 0.01 0.01	0.01 0.01 0.01	0.48 2.95 0.76	
0	54.26	94.86	IF-F - Iron formation with a ultra fine grained Mag beds alternating with cherty bands, low to moderate Mns presence, the bedding of	144325 144327 144328 144329	57.00 60.00 66.00 72.00	60.00 66.00 72.00 78.00	3.00 6.00 6.00 6.00	61.90 55.20 69.20 96.50	0.53 0.45 0.09 1.11	27.70 34.70 25.90 0.83	2.28 3.20 2.30 0.45	1.08 1.26 0.76 0.49	0.06 0.04 0.02 0.28	0.24 0.19 0.06 0.14	0.03 0.02 0.01 0.04	0.05 0.05 0.02 0.01	0.08 0.18 0.10 0.01	0.01 0.01 0.01 0.03	0.01 0.01 0.01 0.01	0.35 0.46 0.29 0.03	



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
1	89.32	91.75	Mag has different amount of silica from 10 to 75%. Local Py (< 8%) and Po (up to 35%).	144330	78.00	84.00	6.00	58.00	0.14	35.20	3.29	0.96	0.01	0.08	0.01	0.03	0.16	0.01	0.01	0.31
				144331	84.00	87.50	3.50	62.30	0.13	31.10	3.23	0.89	0.01	0.08	0.01	0.04	0.14	0.01	0.01	0.48
				144332	87.50	91.75	4.25	48.90	0.10	41.30	3.24	0.86	0.01	0.06	0.01	0.03	0.23	0.01	0.01	6.28
0	94.86	100.41	IF-G - Iron formation with sulfides (Py and Po) up to 30-35% filling fractures, most of the Po is replacing rich Mag bands. Deformed and brecciated texture, veinlets with green mica (Chl), fine to ultra fine grained core, Mns also present.	144333	91.75	96.00	4.25	57.80	0.06	34.80	3.76	0.64	0.01	0.04	0.01	0.04	0.23	0.01	0.01	0.41
				144334	96.00	100.41	4.41	43.80	0.11	43.50	3.58	0.84	0.01	0.07	0.01	0.03	0.42	0.01	0.01	6.30
0	100.41	113.80	IF-F - Replaced iron formation formation with chert and Mag replaced by Mns and Po, ultra fine grained core, Local semi massive Po, White to green Cherty replaced Mag by Mns and Po. Brecciated to banded structures.	144335	100.41	105.00	4.59	62.70	0.08	30.10	3.05	0.47	0.01	0.05	0.01	0.03	0.29	0.01	0.01	0.18
				144336	105.00	109.04	4.04	52.90	2.26	33.80	3.76	1.20	0.58	0.07	0.10	0.09	0.30	0.01	0.01	1.73
1	105.65	107.78	IF-G - Iron formation with moderate sulfides concentration filling fractures and some Mag beds, brecciated to deformed texture, Po and Py up to 12-15% and Sd trace.																	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
2	108.30	109.04	IDB - Intrusive Diabase, altered in chl + cc, fine to medium grained core, foliated texture at the lower contact and moderate to strong HCl response in veinlets and the matrix.																		
				144337	109.04	114.00	4.96	52.10	0.31	37.30	3.61	1.72	0.03	0.13	0.02	0.12	0.16	0.01	0.01	0.13	
0	113.80	130.00	IF-E - Banded Iron Formation, massive to rich Mag + Chert + Mns beds, strong magnetism in the cherty bands, Mns + Qtz + Sd trace in the fractures and bedding. Mag up to 70%, lower contact with deformed bedding and brecciated cherty + Sd and Mns bands.	144339	114.00	120.00	6.00	46.20	0.24	43.10	4.15	1.70	0.02	0.13	0.01	0.14	0.22	0.01	0.01	0.17	
				144340	120.00	126.00	6.00	41.10	0.18	46.70	4.86	1.37	0.02	0.10	0.01	0.06	0.42	0.01	0.01	0.17	
				144341	126.00	130.00	4.00	42.80	0.60	45.20	4.95	1.64	0.01	0.11	0.03	0.06	0.30	0.01	0.01	0.13	
2	126.71	126.89	IDB - Intrusive altered with chlorite and weak calcite. Fine to ultrafine grained core.																		
0	130.00	147.00	IF-F - Banded Iron Formation, rich Mag + Mns + cherty bands, the chert is pale gray and medium to ultra fine grained texture, sulfides fine disseminated in local zones, Py filling veinlets and fractures up to 3-5%, cm to dm veins filling with Cal, Sd and Qtz near to mineralization (Py) also with Chl and Cal alteration, veinlets + Sd + Qtz and Cal cross-cutting the bedding.	144342	130.00	135.00	5.00	42.50	1.21	38.30	4.40	3.21	0.03	0.17	0.06	0.07	0.34	0.01	0.01	0.83	
2	131.05	131.40	IDB - Intrusive altered Diabase, altered with chlorite and																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
			weak Cal, near to mineralization (Py) and a Qtz + Cal + Sd cm'tric and fractured vein.	144343	135.00	141.00	6.00	43.30	0.12	45.10	4.43	1.02	0.02	0.07	0.01	0.07	0.27	0.01	0.01	0.01	0.27
				144345	141.00	147.00	6.00	42.80	0.16	43.10	4.62	1.60	0.01	0.06	0.01	0.07	0.33	0.01	0.01	0.01	0.19
0	147.00	153.15	IF-G - non banded Iron formation, brecciated texture and deformed bands, Mns + Qtz + Sd (trace only) in fractures and veinlets, sulfides present in fractured matrix, broken planes and veinlets, Po up to 12-15% and Py up to 4-5%, Mag replacement by Po and Py in some folded beds.	144346	147.00	153.15	6.15	62.60	3.61	25.50	2.58	0.38	0.05	0.17	0.15	0.04	0.21	0.01	0.01	0.01	1.78
2	148.12	148.52	IDB - Intrusive mafic rock with strong Chlorite alteration, none HCl response, fine to ultra fine grained core, sulfides trace.																		
0	153.15	157.65	IF-F - Banded to bracciated Iron Formation, rich Mag + Mns + Chert bedding, sulfides trace and less to 3%, Mns and Sd replacement near to the rich Mag bands.	144347	153.15	157.65	4.50	46.80	0.14	41.90	4.50	1.47	0.02	0.09	0.01	0.05	0.40	0.01	0.01	0.01	0.28
0	157.65	165.00	IF-G - Banded to deformed Iron Formation, moderate to rich Mag bands + cherty and brecciated beds, sulfides fine disseminated in Mag beds and filling fractures, Sd trace, white to dark gray cherty core with ultra fine grained texture.	144348 144349	157.65 162.00	162.00 165.00	4.35 3.00	56.10 66.50	3.22 2.09	29.20 21.50	2.67 2.09	0.98 1.20	0.17 0.05	0.51 0.24	0.15 0.10	0.07 0.03	0.37 0.45	0.01 0.01	0.01 0.01	0.01 0.01	1.80 0.76
0	165.00	175.50	IF-F	144350	165.00	171.00	6.00	50.60	0.11	39.40	4.51	1.29	0.02	0.07	0.01	0.11	0.28	0.01	0.01	0.01	0.36

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %
			- Banded to bracciated Iron formation, ultra fine grained and rich Mag beds alternating with Chert + lean Mag + Mns bnds, Sd trace. The amount of silica is up to 75-80%. Sulfides (Po> Py) trace to less than 4%. Mag has been replaced by Mns and locally Po.	144351	171.00	175.50	4.50	47.80	0.26	39.10	4.12	2.51	0.02	0.12	0.01	0.13	0.22	0.01	0.01	0.34
0	175.50	201.00	SG - Fine to medium grained sedimentary rock, apple green color, Epidote and strong CaCO3 alteration in the matrix and veinlets. Cherty bands alternating with the graywacke and mudstone beds. Foliation is observed at the shear zone (upper contact) and also in some local levels.	144352	175.50	178.80	3.30	52.90	13.00	10.50	4.68	6.86	2.60	0.36	0.58	0.11	0.15	0.08	0.03	0.03

End of Lithology and Assays ;

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
6.00	9.00	3.00	0.00	0.00	0.42	0.00	1.28	0.00	0.00	0.00	0.00	0.00	
9.00	12.00	3.00	0.00	0.00	0.28	0.00	3.00	0.00	0.00	0.00	0.00	0.00	oxidized intervals with secondary porosity
12.00	15.00	3.00	0.00	0.00	0.70	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
15.00	18.00	3.00	0.00	0.00	0.55	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
18.00	21.00	3.00	0.00	0.00	1.05	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
21.00	24.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
24.00	27.00	3.00	0.00	0.00	0.40	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
27.00	30.00	3.00	0.00	0.00	0.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
30.00	33.00	3.00	0.00	0.00	0.47	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
33.00	36.00	3.00	0.00	0.00	0.55	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
36.00	39.00	3.00	0.00	0.00	0.36	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
39.00	42.00	3.00	0.00	0.00	0.40	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
42.00	45.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
45.00	48.00	3.00	0.00	0.00	0.21	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
48.00	51.00	3.00	0.00	0.00	0.43	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
51.00	54.00	3.00	0.00	0.00	0.35	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
54.00	57.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
57.00	60.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
60.00	63.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
63.00	66.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
66.00	69.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
69.00	72.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
72.00	75.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
75.00	78.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
78.00	81.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
81.00	84.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
84.00	87.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
87.00	90.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
90.00	93.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
93.00	96.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
96.00	99.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
99.00	102.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
102.00	105.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
105.00	108.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
108.00	111.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
111.00	114.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
114.00	117.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
117.00	120.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
120.00	123.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
123.00	126.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
126.00	129.00	3.00	0.00	0.00	0.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
129.00	132.00	3.00	0.00	0.00	0.30	0.00	2.80	0.00	0.00	0.00	0.00	0.00	
132.00	135.00	3.00	0.00	0.00	0.30	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
135.00	138.00	3.00	0.00	0.00	0.40	0.00	2.80	0.00	0.00	0.00	0.00	0.00	
138.00	141.00	3.00	0.00	0.00	0.30	0.00	2.95	0.00	0.00	0.00	0.00	0.00	
141.00	144.00	3.00	0.00	0.00	0.40	0.00	2.80	0.00	0.00	0.00	0.00	0.00	
144.00	147.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
147.00	150.00	3.00	0.00	0.00	0.50	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
150.00	153.00	3.00	0.00	0.00	0.55	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
153.00	156.00	3.00	0.00	0.00	0.45	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
156.00	159.00	3.00	0.00	0.00	0.55	0.00	2.75	0.00	0.00	0.00	0.00	0.00	
159.00	162.00	3.00	0.00	0.00	0.70	0.00	2.80	0.00	0.00	0.00	0.00	0.00	
162.00	165.00	3.00	0.00	0.00	0.75	0.00	2.70	0.00	0.00	0.00	0.00	0.00	
165.00	168.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
168.00	171.00	3.00	0.00	0.00	0.30	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
171.00	174.00	3.00	0.00	0.00	0.15	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
174.00	177.00	3.00	0.00	0.00	0.55	0.00	2.80	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>CalculRQP</i>	<i>Pces&lt;100</i>	<i>talRecover</i>	<i>Recovery</i>	<i>Fractures</i>	<i>sacts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
			<i>%</i>	<i>%</i>		<i>%</i>							
177.00	180.00	3.00	0.00	0.00	0.50	0.00	2.60	0.00	0.00	0.00	0.00	0.00	shear zone
180.00	183.00	3.00	0.00	0.00	0.70	0.00	2.75	0.00	0.00	0.00	0.00	0.00	
183.00	186.00	3.00	0.00	0.00	0.70	0.00	2.75	0.00	0.00	0.00	0.00	0.00	
186.00	189.00	3.00	0.00	0.00	0.35	0.00	2.80	0.00	0.00	0.00	0.00	0.00	
189.00	192.00	3.00	0.00	0.00	0.30	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
192.00	195.00	3.00	0.00	0.00	0.40	0.00	2.95	0.00	0.00	0.00	0.00	0.00	
195.00	198.00	3.00	0.00	0.00	0.40	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
198.00	201.00	3.00	0.00	0.00	0.40	0.00	3.00	0.00	0.00	0.00	0.00	0.00	

End of RQD ; 65 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
9.70	11.30	Oxidized		

End of Alterations ; 1 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
0.00	153.15	IF-G			25	0	15	2	1	57	0
0.00	165.00	IF-G			30	0	10	4	1	55	0
27.00	32.00	IF-G			12	0	25	3	0	60	0
41.00	54.26	IF-G			25	0	15	1	0	60	0
54.26	94.86	IF-F			45	0	2	10	0	43	0
94.86	100.41	IF-G			35	0	20	0	0	45	0
100.41	113.80	IF-F			35	0	0	12	1	52	0
113.80	130.00	IF-E			60	0	0	1	3	36	0
130.00	147.00	IF-F			45	0	0	4	5	46	0
153.15	157.65	IF-F			40	0	1	1	1	57	0

End of Mineralizations ; 10 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
9.00	65.00	S0	
10.00	65.00	S0	
15.50	70.00	S0	
17.50	55.00	S0	
18.80	45.00	S0	
22.40	65.00	S0	
23.50	60.00	S0	
24.50	50.00	S0	
28.50	55.00	S0	Po zone
35.70	70.00	S0	
38.00	75.00	S0	
40.00	60.00	S0	
43.00	60.00	S0	
44.50	70.00	S0	
45.00	50.00	S0	
50.00	60.00	S0	
55.00	70.00	S0	
56.70	60.00	S0	
59.60	60.00	S0	
64.00	45.00	S0	
65.50	50.00	S0	
73.00	50.00	S0	
77.00	55.00	S0	
81.20	50.00	S0	
84.30	45.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
87.00	55.00	S0	
89.30	60.00	S0	
95.00	60.00	S0	
98.80	50.00	S0	
103.00	50.00	S0	
109.10	60.00	S0	
113.70	50.00	S0	
114.00	50.00	S0	
119.00	50.00	S0	
126.20	60.00	S0	
127.00	55.00	S0	
129.00	50.00	S0	
129.90	65.00	S0	
132.00	55.00	S0	
134.40	50.00	S0	
134.60	40.00	Vcc	Cc+ Qtz
136.00	50.00	S0	
137.90	60.00	S0	
142.00	50.00	S0	
144.10	55.00	S0	
147.00	40.00	S0	
148.12	60.00	Cnt	upper contact IF and intrusive
148.52	50.00	Cnt	lower contact Intrusive and IF
153.50	60.00	S0	
155.00	60.00	S0	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
156.60	60.00	S0	
165.00	55.00	S0	
167.70	75.00	S0	
168.50	75.00	S0	
173.80	50.00	S0	
175.60	50.00	S1	plane of weakness // s1
177.00	50.00	S1	
178.00	55.00	S1	
181.00	55.00	S0	
182.00	50.00	S0	
184.00	50.00	S0	fractured planes // to bedding
191.50	55.00	S0	
197.00	70.00	S0	
198.50	65.00	S0	
199.00	30.00	Vcc	
200.00	45.00	S0	fractured plane

End of Structures ;            66 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-**RadioHill** DDH2011.accdb*

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**Hole:** RH-11-18

<b>Easting:</b> 413325.40	<b>Northing:</b> 5334165.60	<b>Elevation:</b> 447.80
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> 45.00	<b>Length:</b> 120.00 <i>m.</i>
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> Orbit Garant
<b>Started:</b> 01/12/2011	<b>Finished:</b> 03/12/2011	<b>Logged By:</b> Matthew Halliday
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b> 3-12-2011		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
30.00	189.20	0.00	-45.60	EZ Shot	Active

End of Deviations ; 2 record(s) printed.

60.00	199.70	0.00	-44.70	EZ Shot	Active
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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
0	0.00	19.40	OVB																	
0	19.40	63.00	IF-E - this is borderline IF-F to If-E, the chert is very dark in most places and obscures the iron, the magnetic iron is also disseminated in the chert or in thin bands, some zones go into If-f. The unit is moderately oxidized, and is hard to tell where there are faults, there are cumbly oxidized intervals near the beginning, which I assume comes from surface fracuters	104973 104974 104975 104977 104978 104979 104980 104981	19.40 24.00 30.00 36.00 42.00 48.00 54.00 57.00	24.00 30.00 36.00 42.00 48.00 54.00 63.00	4.60 6.00 6.00 6.00 6.00 6.00 3.00 6.00	44.20 46.50 49.20 52.60 44.60 47.70 49.30 51.00	0.12 0.23 0.10 0.06 0.08 0.14 0.13 2.70	54.30 49.90 47.50 45.60 52.80 48.00 46.60 40.70	0.30 1.14 0.96 0.71 0.84 1.17 0.86 1.74	0.50 0.31 0.22 0.15 0.28 0.13 0.10 0.48	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.28	0.02 0.07 0.02 0.01 0.02 0.02 0.01 0.12	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.15	0.12 0.09 0.09 0.10 0.07 0.07 0.07 0.17	0.03 0.05 0.03 0.03 0.04 0.05 0.05 0.08	0.01 0.01 0.01 0.01 0.01 0.02 0.01 0.02	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.03 0.03 0.20 0.13 0.18 0.27 0.29 0.35
1	57.73	58.35	IDD - soft and cumbly, weathered, green colour, some black slippery fracture surfaces																	
1	60.87	63.00	IDD - soft and cumbly, weathered, green colour, some black slippery fracture surfaces, some mixing with the iron formation at lower contact																	
0	63.00	69.85	IF-F - high grade IF-F interbed chert and magnetite, with some milt faulting and brecciation (small brecciated angular chert clasts) there is a zone with pyrite replacement on the magnetite but the magnetite is still strong reaction to magnet.	104983	63.00	68.85	5.85	46.30	0.91	41.20	2.64	0.64	0.12	0.12	0.04	0.11	0.08	0.01	0.01	2.39
0	69.85	98.00	FZ - the upper fault zone is iron formation with a dyke, the bottom is the sediment unit, which starts as an argyllite, the bulk of the fault zone is heavily fractured iron																	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
1	69.85	71.00	formation and cherts, with heavy oxidation, as we reach the lower contact, the hard brittle fragments, becomes softer, more weather and mudfilled. The last 5 meters, is consolidated to loose fault gouge, starting very orange oxidized till it is almost entirely argillite gouge, which is grey-blue-green, and contains some weathered clasts of chert,  IDB - grey green with rusted fractures, at the beginning of fault zone																		
0	98.00	120.00	SM - the unit is more fractured than typical basement sediments, it starts with an argillitic zone and interbed with the normal green carb sediments, the end of the unit has a soapy texture and maybe contains talc.																		

End of Lithology and Assays ;

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
19.20	21.00	1.80	0.00	0.00	1.55	0.00	1.80	0.00	0.00	0.00	0.00	0.00	
21.00	24.00	3.00	0.00	0.00	1.55	0.00	2.10	0.00	0.00	0.00	0.00	0.00	
24.00	27.00	3.00	0.00	0.00	1.41	0.00	2.52	0.00	0.00	0.00	0.00	0.00	
27.00	30.00	3.00	0.00	0.00	1.17	0.00	2.54	0.00	0.00	0.00	0.00	0.00	
30.00	33.00	3.00	0.00	0.00	0.78	0.00	2.98	0.00	0.00	0.00	0.00	0.00	
33.00	36.00	3.00	0.00	0.00	0.64	0.00	2.85	0.00	0.00	0.00	0.00	0.00	
36.00	39.00	3.00	0.00	0.00	0.76	0.00	2.92	0.00	0.00	0.00	0.00	0.00	
39.00	42.00	3.00	0.00	0.00	0.86	0.00	2.96	0.00	0.00	0.00	0.00	0.00	
42.00	45.00	3.00	0.00	0.00	0.82	0.00	2.65	0.00	0.00	0.00	0.00	0.00	
45.00	48.00	3.00	0.00	0.00	0.38	0.00	2.60	0.00	0.00	0.00	0.00	0.00	
48.00	51.00	3.00	0.00	0.00	0.90	0.00	2.42	0.00	0.00	0.00	0.00	0.00	
51.00	54.00	3.00	0.00	0.00	0.90	0.00	3.02	0.00	0.00	0.00	0.00	0.00	
54.00	57.00	3.00	0.00	0.00	1.40	0.00	2.20	0.00	0.00	0.00	0.00	0.00	
57.00	60.00	3.00	0.00	0.00	1.30	0.00	2.40	0.00	0.00	0.00	0.00	0.00	
60.00	63.00	3.00	0.00	0.00	1.60	0.00	2.23	0.00	0.00	0.00	0.00	0.00	
63.00	66.00	3.00	0.00	0.00	0.17	0.00	3.02	0.00	0.00	0.00	0.00	0.00	
66.00	69.00	3.00	0.00	0.00	0.17	0.00	2.72	0.00	0.00	0.00	0.00	0.00	
69.00	72.00	3.00	0.00	0.00	1.60	0.00	1.70	0.00	0.00	0.00	0.00	0.00	
72.00	75.00	3.00	0.00	0.00	0.30	0.00	0.30	0.00	0.00	0.00	0.00	0.00	
75.00	78.00	3.00	0.00	0.00	0.50	0.00	0.50	0.00	0.00	0.00	0.00	0.00	
78.00	81.00	3.00	0.00	0.00	1.15	0.00	1.30	0.00	0.00	0.00	0.00	0.00	
81.00	84.00	3.00	0.00	0.00	0.13	0.00	0.33	0.00	0.00	0.00	0.00	0.00	
84.00	87.00	3.00	0.00	0.00	0.50	0.00	0.50	0.00	0.00	0.00	0.00	0.00	
87.00	90.00	3.00	0.00	0.00	0.27	0.00	0.47	0.00	0.00	0.00	0.00	0.00	
90.00	93.00	3.00	0.00	0.00	0.10	0.00	0.10	0.00	0.00	0.00	0.00	0.00	
93.00	96.00	3.00	0.00	0.00	1.06	0.00	1.06	0.00	0.00	0.00	0.00	0.00	
96.00	99.00	3.00	0.00	0.00	1.77	0.00	2.27	0.00	0.00	0.00	0.00	0.00	
99.00	102.00	3.00	0.00	0.00	1.75	0.00	1.75	0.00	0.00	0.00	0.00	0.00	
102.00	105.00	3.00	0.00	0.00	1.70	0.00	2.70	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>%ces&gt;100</i>	<i>CalculRQ</i>	<i>%ces&lt;100</i>	<i>talRecove</i>	<i>Recovery</i>	<i>Fractures</i>	<i>acts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
105.00	108.00	3.00	0.00	0.00	1.50	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
108.00	111.00	3.00	0.00	0.00	0.95	0.00	2.96	0.00	0.00	0.00	0.00	0.00	
111.00	114.00	3.00	0.00	0.00	1.57	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
114.00	117.00	3.00	0.00	0.00	1.47	0.00	3.10	0.00	0.00	0.00	0.00	0.00	
117.00	120.00	3.00	0.00	0.00	0.55	0.00	3.00	0.00	0.00	0.00	0.00	0.00	EOH

End of RQD ; 34 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
0.00	30.00	well oxidized		
30.00	63.00	mild oxidized		
69.00	96.00	well oxidized - fault zon		

End of Alterations ;            3 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
19.40	63.00	IF-E			50	0	1	1	1	40	0
63.00	68.85	IF-F			40	0	0	5	1	50	0

End of Mineralizations ;        2 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Structures:*

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
23.32	50.00	S0	wavy
33.20	85.00	S0	thin bedding, wavy
34.35	25.00	Flt	oxidized fracture surface, quartz cement is hard, has an orange rust coating
43.00	55.00	S0	
53.00	40.00	S0	
65.00	30.00	S0	iron bedding will bulge due to competence of other beds and fractures,
67.40	110.00	VQ	1mm thick, siderite forming on the edges but very thin, possibly anchorite
113.00	60.00	S1	ement fractures, 30cm in length, each fracture is thin and is 4mm-8mm apart from the last, all around 60degrees,

End of Structures ;                    8 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-19

<b>Easting:</b> 413178.40	<b>Northing:</b> 5333924.00	<b>Elevation:</b> 437.40
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 57.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> Orbit Garant
<b>Started:</b> 08-12-2011	<b>Finished:</b> 09-12-2011	<b>Logged By:</b> Matthew halliday
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b> Hit a sand seem, closed the hole		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
18.00	188.40	0.00	-42.60	EZ Shot	Active

End of Deviations ; 1 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S
								%	%	%	%	%	%	%	%	%	%	%	%	%
0	0.00	6.00	OVB																	
0	6.00	53.75	OXI - was IF-F , weakly to strongly magentic in some intervals, if all contains iron, the core is redish brown, tro burgundy, to a rusty orange. The core is highly fractured, and recovery is very low. In some situations the chert is weathered along bedding and carried away. Some of the chert is so deeply weathered, it appears to be an orange sandstone, however relic marks are there upon inspection. There is evidence of fault zones tbx that has been cemented. Orientations for strutures would be very hard to take on this hole, you can see the bedding, but the whole interval is so oxidized and faulted, the magnetite layers are mostly closely spaces, and about 5mm thick, many of the bands, meet at blocky faults, and many of the bands are folded over,	105008 105009 105010 105011 105012 105013 105014	6.00 12.00 18.00 24.00 30.00 36.00 42.00	12.00 18.00 24.00 30.00 36.00 42.00 48.00	6.00 6.00 6.00 6.00 6.00 6.00 6.00	51.80 53.00 56.50 44.20 54.90 46.00 44.10	0.33 0.14 0.20 0.21 0.22 0.09 1.87	45.10 45.20 40.80 53.30 41.60 51.60 51.40	0.04 0.03 0.02 0.02 0.03 0.02 0.02	0.01 0.02 0.02 0.01 0.02 0.01 0.02	0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01 0.01 0.01 0.10	0.04 0.06 0.07 0.09 0.08 0.05 0.03	0.01 0.01 0.01 0.01 0.01 0.01 0.01	0.01 0.01 0.01 0.01 0.01 0.01 0.02	0.01 0.01 0.01 0.01 0.01 0.01 0.01	
1	47.00	54.00	FZ - ilmenite plug, very soft and weathered, can crush with hands. Brokenup core and pebbly, grey mud matrix seen at times, very soft, grades into basement seds, this is the first time I have seen rusty bastment seds, soft weathered and talcy.	105015	48.00	53.75	5.75	46.10	3.38	44.00	0.15	0.04	0.01	0.01	0.20	0.04	0.01	0.02	0.01	
0	53.75	57.00	SM - basement sediments oxidized, foliated, light green to grey core, interbedded layers of fine to medium, foliation around 45, fine grained disseminated pyrites, we had to stop the hole because of sand seems, 3m worth at the end.	105016	53.75	57.00	3.25	56.90	14.30	10.90	1.72	2.30	3.20	2.04	0.54	0.18	0.13	0.02	0.02	0.15



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Lithology and Assays:*

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	

End of Lithology and Assays ;

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-**RadioHill** DDH2011.accdb*

**RQD:**

<b>From</b>	<b>To</b>	<b>length</b>	<b>%ces&gt;100</b>	<b>Calcu</b>	<b>RQPces&lt;100</b>	<b>talRecover</b>	<b>Recovery</b>	<b>Fractures</b>	<b>acts/Leng</b>	<b>Veins</b>	<b>ains/Leng</b>	<b>Angle</b>	<b>Description</b>
			<b>%</b>		<b>%</b>		<b>%</b>						
6.00	9.00	3.00	0.00	0.00	0.84	0.00	1.50	0.00	0.00	0.00	0.00	0.00	Oxidized and highly fractured
9.00	12.00	3.00	0.00	0.00	1.00	0.00	2.40	0.00	0.00	0.00	0.00	0.00	Oxidized and highly fractured
12.00	15.00	3.00	0.00	0.00	0.95	0.00	1.75	0.00	0.00	0.00	0.00	0.00	Oxidized and highly fractured
15.00	18.00	3.00	0.00	0.00	1.35	0.00	1.70	0.00	0.00	0.00	0.00	0.00	Oxidized and highly fractured
18.00	21.00	3.00	0.00	0.00	0.63	0.00	0.75	0.00	0.00	0.00	0.00	0.00	Oxidized and highly fractured
21.00	24.00	3.00	0.00	0.00	0.55	0.00	0.80	0.00	0.00	0.00	0.00	0.00	Oxidized and highly fractured
24.00	27.00	3.00	0.00	0.00	0.83	0.00	1.17	0.00	0.00	0.00	0.00	0.00	Oxidized and highly fractured
27.00	30.00	3.00	0.00	0.00	0.82	0.00	1.57	0.00	0.00	0.00	0.00	0.00	Oxidized and highly fractured
30.00	33.00	3.00	0.00	0.00	1.17	0.00	1.70	0.00	0.00	0.00	0.00	0.00	Oxidized and highly fractured
33.00	36.00	3.00	0.00	0.00	1.21	0.00	1.78	0.00	0.00	0.00	0.00	0.00	Oxidized and highly fractured
36.00	39.00	3.00	0.00	0.00	1.21	0.00	2.11	0.00	0.00	0.00	0.00	0.00	Oxidized and highly fractured
39.00	42.00	3.00	0.00	0.00	1.57	0.00	2.06	0.00	0.00	0.00	0.00	0.00	Oxidized and highly fractured
42.00	45.00	3.00	0.00	0.00	1.68	0.00	1.88	0.00	0.00	0.00	0.00	0.00	Oxidized and highly fractured - sand seam
45.00	48.00	3.00	0.00	0.00	1.01	0.00	1.14	0.00	0.00	0.00	0.00	0.00	Oxidized and highly fractured
48.00	51.00	3.00	0.00	0.00	0.95	0.00	0.95	0.00	0.00	0.00	0.00	0.00	Oxidized and highly fractured
51.00	54.00	3.00	0.00	0.00	0.80	0.00	0.80	0.00	0.00	0.00	0.00	0.00	Oxidized and highly fractured - sand seam
54.00	57.00	3.00	0.00	0.00	1.36	0.00	2.56	0.00	0.00	0.00	0.00	0.00	oxidized moderately fractured, sand seam closed hole

End of RQD ; 17 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
0.00	57.00	Oxidized		

End of Alterations ; 1 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
0.00	53.75	oxi			10	0	0	0	0	40	0

End of Mineralizations ; 1 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Structures:*

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
8.00	45.00	S1	(bedding) all these structures are suspect, the whole zone is oxidized and faulted
33.00	70.00	S0	wavy, jointed bedding
42.00	50.00	S0	wavy jointed bedding, weathered too
47.00	40.00	Cnt	ilmenite,
56.00	50.00	S1	foliation, - consistent

End of Structures ;           5 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-20

<b>Easting:</b> 413178.80	<b>Northing:</b> 5334146.40	<b>Elevation:</b> 439.60
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 0.00	<b>Dip:</b> -90.00	<b>Length:</b> 102.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> orbit garant
<b>Started:</b> 10/12/2011	<b>Finished:</b> 12/12/2011	<b>Logged By:</b> Matt Halliday
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/>
<b>Township:</b>		<b>Casing:</b> <input type="checkbox"/>
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
21.00	40.20	0.00	-89.30	EZ Shot	Inactive
105.00	80.30	0.00	-89.80	EZ Shot	Inactive

51.00	19.20	0.00	-89.50	EZ Shot	Inactive
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End of Deviations ; 3 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	0.00	12.00	OVB																		
0	12.00	21.93	IF-F - banding irregular, foliated buff to dark grey, fine graineds, locally oxidized, 20% magnetite, moderately fractures, fine grind near fractures, locally from 14.4-14.6 finely ground. From 21.5-21.92m there is a pyritic section, associated with a chloritized mud (3-5%), fine grained pyrite concentrated along hairline fractures.	105017	12.00	16.95	4.95	53.40	4.52	34.50	2.92	0.31	0.47	0.65	0.27	0.21	0.09	0.01	0.01	0.01	0.02
1	16.95	20.15	IDB - greenish to rusted brown, massive, medium grained, felsic, fresher at bottom contact, gets finer at the chill margin on the bottom, however indistinct,	105018	16.95	21.93	4.98	47.00	0.14	42.80	2.87	0.15	0.01	0.05	0.01	0.04	0.09	0.01	0.01	0.01	0.28
0	21.93	48.00	SLC - the core is tan to creamy, chert can also be dark, pyrite, and magnetite locally within hairline fractures, from fine-medium grained, at 33m the core is less creamy and more a matte tan colour and becomes less fractured and the bedding becomes more regular, magnetite <5% over the unit. *I suspect that in the first half with the localized pyrite and magnetite in the fractures, that there could be siderite in the creamy chert. Where the banding is more coherent the thickness is about a 1cm. A couple small localized oxidized zones, a few bands completely oxidized.	105019 105021	21.93 42.00	28.00 48.00	6.07 6.00	48.30 45.90	1.70 0.12	32.10 32.70	2.69 2.58	0.28 0.44	0.10 0.01	0.27 0.01	0.10 0.01	0.08 0.04	0.10 0.10	0.01 0.01	0.01 0.01	0.01 0.01	0.80 0.19
0	48.00	61.00	IF-H - localized zone upto 40cm of pyrites, either fracture filled to massive, core is banded higher angle, tan to white and grey cherts, tan chert contains siderite,	105022 105023 105024	48.00 54.00 60.00	54.00 60.00 64.70	6.00 6.00 4.70	42.20 46.10 55.80	0.97 2.69 4.64	34.10 31.20 24.30	2.38 3.11 2.81	0.37 0.46 0.31	0.01 0.01 0.01	0.01 0.01 0.03	0.04 0.13 0.22	0.10 0.15 0.16	0.14 0.16 0.13	0.01 0.02 0.02	0.01 0.01 0.01	0.01 0.01 0.01	3.70 1.60 1.83

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
0	61.00	64.70	pyrite fill more prominent across tan beds, some siderite is medium/coarse grained. Chloritized zone contains sulfides. Beginning of interval is brecciated, has a low angle hematized joint, some soft fill possibly in vugs. SC - similar to last unit, more chloritized mud, contains fracture filled pyrite locally,																		
0	64.70	69.40	IF-F - sharp contact at 30 degrees, core is dark grey and green with some light banding chert and mudstone, there iron bands and iron banding in the mudstone aswell as possibly fracture fill iron in the mud. Iron bands are average 8mm and thinner for fracture fill. Fractures prominent in the harder units, and chert is deformed and jointed in the mud zones.	105025	64.70	69.40	4.70	46.30	5.32	34.70	3.67	1.81	0.01	0.02	0.26	0.14	0.08	0.02	0.01	0.21	
0	69.40	77.20	SLC - dark green massive mud (chloritize), with local chert banding, not a lot of tan, most of the bands are dark, chert banding is about 10%, less than 10% magnetite, some fine grained pyrites localized in fractures and vugs, some little blobs of quartz and carb,																		
1	69.40	70.35	IDB - light green, contact is indistint, secondary carb, medium grained, plagioclase dominates, looks felsic and massive.	105027	69.40	75.40	6.00	51.70	8.84	20.30	4.71	3.95	0.76	0.05	0.50	0.25	0.16	0.03	0.02	0.29	
0	77.20	102.00	SM - grey to pale greenish grey, massive,																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
			predominately finegraine to locally medium grained, fractured throughout with hairline carb chloritic fractures, areas of coarser clasts, the first 10m has clasts of three or four centimeters look like a conglomerate, clast sub-angular to sub-rounded.																		

End of Lithology and Assays ;

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	sacts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
12.00	15.00	3.00	0.00	0.00	1.10	0.00	2.50	0.00	0.00	0.00	0.00	0.00	broken, oxidized
15.00	18.00	3.00	0.00	0.00	1.20	0.00	2.50	0.00	0.00	0.00	0.00	0.00	broken, oxidized, soft intrusive
18.00	21.00	3.00	0.00	0.00	1.52	0.00	2.55	0.00	0.00	0.00	0.00	0.00	broken, oxidized, soft intrusive
21.00	24.00	3.00	0.00	0.00	0.80	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
24.00	27.00	3.00	0.00	0.00	0.16	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
27.00	30.00	3.00	0.00	0.00	0.50	0.00	2.92	0.00	0.00	0.00	0.00	0.00	
30.00	33.00	3.00	0.00	0.00	0.25	0.00	3.05	0.00	0.00	0.00	0.00	0.00	
33.00	36.00	3.00	0.00	0.00	0.07	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
36.00	39.00	3.00	0.00	0.00	0.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
39.00	42.00	3.00	0.00	0.00	0.35	0.00	3.03	0.00	0.00	0.00	0.00	0.00	
42.00	45.00	3.00	0.00	0.00	0.23	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
45.00	48.00	3.00	0.00	0.00	1.00	0.00	2.97	0.00	0.00	0.00	0.00	0.00	series of ~45 fractures
48.00	51.00	3.00	0.00	0.00	0.22	0.00	3.02	0.00	0.00	0.00	0.00	0.00	
51.00	54.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
54.00	57.00	3.00	0.00	0.00	1.00	0.00	2.65	0.00	0.00	0.00	0.00	0.00	some fault gouge
57.00	60.00	3.00	0.00	0.00	0.21	0.00	3.08	0.00	0.00	0.00	0.00	0.00	
60.00	63.00	3.00	0.00	0.00	1.50	0.00	2.90	0.00	0.00	0.00	0.00	0.00	weathered joints,
63.00	66.00	3.00	0.00	0.00	0.12	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
66.00	69.00	3.00	0.00	0.00	0.00	0.00	2.83	0.00	0.00	0.00	0.00	0.00	
69.00	72.00	3.00	0.00	0.00	0.60	0.00	3.05	0.00	0.00	0.00	0.00	0.00	intrusive
72.00	75.00	3.00	0.00	0.00	0.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
75.00	78.00	3.00	0.00	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00	0.00	
78.00	81.00	3.00	0.00	0.00	0.17	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
81.00	84.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
84.00	87.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
87.00	90.00	3.00	0.00	0.00	0.30	0.00	2.94	0.00	0.00	0.00	0.00	0.00	
90.00	93.00	3.00	0.00	0.00	0.37	0.00	3.17	0.00	0.00	0.00	0.00	0.00	



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcu</i>	<i>RQPces&lt;100</i>	<i>tal</i>	<i>Recove</i>	<i>Recovery</i>	<i>Fractures</i>	<i>sacts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
93.00	96.00	3.00	0.00	0.00	0.55	0.00	3.20	0.00	0.00	0.00	0.00	0.00	0.00	
96.00	99.00	3.00	0.00	0.00	0.75	0.00	3.10	0.00	0.00	0.00	0.00	0.00	0.00	
99.00	102.00	3.00	0.00	0.00	0.92	0.00	3.04	0.00	0.00	0.00	0.00	0.00	0.00	

End of RQD ; 30 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
12.00	21.00	Oxidized		
29.00	30.00	Oxidized		

End of Alterations ;            2 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
12.00	21.93	IF-F			20	0	0	2	0	70	0
48.00	61.00	IF-H			5	0	5	0	10	70	0
64.70	69.40	IF-F			30	0	0	1	0	30	0

End of Mineralizations ;      3 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
14.10	30.00	S0	banding iff
26.50	50.00	S0	banding
30.50	45.00	S0	banding
37.00	45.00	S0	banding (ave)
39.00	40.00	S0	banding
46.00	55.00	S0	banding
52.00	65.00	S0	banding
56.00	70.00	S0	banding
61.00	85.00	S0	banding
64.70	30.00	Cnt	sc/iff - (iff contains mud)
68.00	75.00	S0	banding
74.00	55.00	S0	bedding (chert in mudstone)
79.00	20.00	S1	small thin jointing in the basement, averaged (79-87m), spacing 1cm, hairline carb- or chlorite
98.00	30.00	S1	thin carb jointing, spacing irregular, less dense

End of Structures ;            14 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-21

<b>Easting:</b> 413479.10	<b>Northing:</b> 5334151.10	<b>Elevation:</b> 442.00
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 108.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> orbit grant
<b>Started:</b> 29/11/2011	<b>Finished:</b> 30/11/2011	<b>Logged By:</b> Matthew Halliday
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
36.00	203.20	0.00	-45.50	EZ Shot	Active
111.00	183.10	0.00	-41.90	EZ Shot	Active

87.00	186.20	0.00	-42.90	EZ Shot	Active
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End of Deviations ; 3 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
0	0.00	24.00	OVB																		
0	24.00	25.85	gw - grey, fine grained massive, mild oxidation																		
0	25.85	48.50	SM - similar to regular basement sediments, foliated, some green carbonate, the unit contains a lot of carbonates and veins, most of the core will fizz on contact. It is highly oxidized in this zone, and may be a fault zone, there are many soft chalky fill zones that are extremely weathered, and are regularly spaced, but there is not apparent brecciation. The core recovery is extremely low. (fine to coarse pyrite, disseminated)																		
1	27.00	42.00	FZ - highly weathered																		
0	48.50	55.30	gw - this is part of the sedimentary system. Massive, grey meta sediments, carbonate veining, grey core, bedding is less aparent, still oxidized zones, and coarser sections 10cm long that have heavy rust staining, they are porous and carbonate veins have been weathered out, they are significantly softer, though the core recovery is fine, I believe there were all fractures, and the sandstones have been altered, the rust alterations are not all sharp. (fine to coarse pyrite, disseminated)																		
1	50.45	51.95	SM - a band within the gw, part of the stratigraphic unit, same as above (fine to coarse pyrite																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %
0	55.30	70.15	SM - Highly oxidized, interbeds of mudstone and sandstone, calcite veins have been weathered, there are some zones of weathered green mudstone from the SC unit, and likely some extremely oxidized iron bands, this is not the sedimentary chert unit though, though there is some chert and quartz clast, likely thin beds, the core is grey to rusty brown, the extremely oxidized zones are not very dense, though are likely rusted magnetite, and contain fine to medium grained pyrites, they appear to be completely non magnetic they are filled with soft dark green mud fractures, and friable, there is weathered quartz associated too. The mudstone beds have been altered and wavy though bedding angle is apparent, there are fresh fractures thin that can be pulled apart by bare hands, oxidized rusty surfaces.	104970	64.15	70.15	6.00	58.00	16.20	8.25	3.03	2.89	2.00	2.32	0.67	0.16	0.07	0.04	0.03	0.07
0	70.15	81.57	SLC - The sedimentary unit grades from chert banded with completely oxidized iron bands into chert green chloritized mudstone, chert and oxidized iron, there is a small band of low grade iff in the middle. Quartz veins are porous and so is the oxidized iron, there is pyrite replacement in the iron too, some small siderite veins, and siderite in the quartz veining, pyrite is also observed on the contacts between chert and mudstone, the core is a greenish grey with strong rust zones, there are also small blocks of siderite replacement found throughout, iron beds, are typically 1cm wide, often mixed with chert, the mudstone	104971	70.15	75.00	4.85	43.30	1.19	34.00	3.45	2.38	0.01	0.01	0.05	0.06	0.16	0.01	0.01	0.62

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
1	72.10	74.75	beds are thicker usually several cm long to about 10cm  IF-F - low grade iff interval, light grey, 15-20% magnetite maximum, alternating bands, at about 45 degrees, wavy pinched, lower rust and mudstone than surrounding, siderite veining, thin 1.5mm thick and jointed, a few displacement fracturesm core is light grey to light rgreen grey.																		
0	81.57	108.00	SM - light greenish grey core, foliated and banded with coarser more silica rich gw, zome zones of green carb and fine disseminated pyrite, a few zones where fine grained pyrite form larger square nodules. Carbonate rich, some of the foliation is 15 degrees off from bedding.	104972	75.00	81.57	6.57	54.70	6.11	23.40	3.25	1.53	0.01	0.01	0.29	0.07	0.16	0.01	0.01	2.52	

End of Lithology and Assays ;

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-**RadioHill** DDH2011.accdb*

**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcu</i>	<i>RQPces&lt;100</i>	<i>talReco</i>	<i>Recovery</i>	<i>Fractures</i>	<i>sacts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
			%		%								
24.00	27.00	3.00	0.00	0.00	1.01	0.00	3.00	0.00	0.00	0.00	0.00	0.00	missing block 24 - mild oxidation
27.00	30.00	3.00	0.00	0.00	0.50	0.00	0.70	0.00	0.00	0.00	0.00	0.00	mild oxidation
30.00	33.00	3.00	0.00	0.00	2.00	0.00	2.00	0.00	0.00	0.00	0.00	0.00	oxidation - rubble
33.00	36.00	3.00	0.00	0.00	0.85	0.00	0.85	0.00	0.00	0.00	0.00	0.00	oxidation - rubble
36.00	39.00	3.00	0.00	0.00	1.20	0.00	1.40	0.00	0.00	0.00	0.00	0.00	oxidation - rubble
39.00	42.00	3.00	0.00	0.00	2.45	0.00	2.70	0.00	0.00	0.00	0.00	0.00	oxidation - rubble
42.00	45.00	3.00	0.00	0.00	2.23	0.00	2.88	0.00	0.00	0.00	0.00	0.00	mild oxidation - heavily fractured
45.00	48.00	3.00	0.00	0.00	0.00	0.00	2.37	0.00	0.00	0.00	0.00	0.00	longitudinal fractures
48.00	51.00	3.00	0.00	0.00	1.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	oxidized, porous
51.00	54.00	3.00	0.00	0.00	1.04	0.00	3.10	0.00	0.00	0.00	0.00	0.00	oxidized, rubbly zones, and coherent zones (rubble is more oxidized)
54.00	57.00	3.00	0.00	0.00	0.93	0.00	2.50	0.00	0.00	0.00	0.00	0.00	oxidized, fractured
57.00	60.00	3.00	0.00	0.00	0.40	0.00	2.30	0.00	0.00	0.00	0.00	0.00	oxidized, some fractures have soft oxidized fill
60.00	63.00	3.00	0.00	0.00	1.07	0.00	2.78	0.00	0.00	0.00	0.00	0.00	oxidized porous
63.00	66.00	3.00	0.00	0.00	1.24	0.00	2.38	0.00	0.00	0.00	0.00	0.00	oxidized, fractured, soft fill
66.00	69.00	3.00	0.00	0.00	0.66	0.00	2.72	0.00	0.00	0.00	0.00	0.00	oxidized,
69.00	72.00	3.00	0.00	0.00	0.85	0.00	2.74	0.00	0.00	0.00	0.00	0.00	oxidized porous
72.00	75.00	3.00	0.00	0.00	0.47	0.00	2.95	0.00	0.00	0.00	0.00	0.00	oxidized
75.00	78.00	3.00	0.00	0.00	0.66	0.00	3.14	0.00	0.00	0.00	0.00	0.00	oxidized
78.00	81.00	3.00	0.00	0.00	0.50	0.00	3.00	0.00	0.00	0.00	0.00	0.00	oxidized
81.00	84.00	3.00	0.00	0.00	0.28	0.00	2.95	0.00	0.00	0.00	0.00	0.00	oxidized porous,
84.00	87.00	3.00	0.00	0.00	0.76	0.00	3.00	0.00	0.00	0.00	0.00	0.00	mild oxidation
87.00	90.00	3.00	0.00	0.00	0.61	0.00	2.95	0.00	0.00	0.00	0.00	0.00	mild oxidation
90.00	93.00	3.00	0.00	0.00	0.27	0.00	3.03	0.00	0.00	0.00	0.00	0.00	
93.00	96.00	3.00	0.00	0.00	0.31	0.00	2.93	0.00	0.00	0.00	0.00	0.00	
96.00	99.00	3.00	0.00	0.00	0.20	0.00	3.00	0.00	0.00	0.00	0.00	0.00	mild oxidation
99.00	102.00	3.00	0.00	0.00	0.25	0.00	3.03	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcu</i>	<i>RQPces&lt;100</i>	<i>tal</i>	<i>Recove</i>	<i>Recovery</i>	<i>Fractures</i>	<i>sacts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
102.00	105.00	3.00	0.00	0.00	0.30	0.00	3.01	0.00	0.00	0.00	0.00	0.00	0.00	
105.00	108.00	3.00	0.00	0.00	0.84	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	mild oxidation

End of RQD ; 28 record(s) printed.





*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
24.00	27.00	oxidation		
27.00	42.00	heavy oxidation		
42.00	57.00	oxidation		
57.00	76.00	heavy oxidation		
76.00	108.00	oxidation		

End of Alterations ; 5 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
70.15	81.57	scl			5	15	0	5	5	35	0
72.10	74.75	IF-F			20	5	0	3	3	40	0

End of Mineralizations ;      2 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
25.95	45.00	S1	foliation
38.40	45.00	S1	foliation
42.90	45.00	S1	foliation or bedding
47.45	40.00	S1	foliation
50.05	50.00	Cnt	coarser rusty units, 15cm long, could be bedding
59.70	50.00	S1	foliation
67.30	145.00	S1	displacement / fracture
67.30	50.00	S0	bedding
72.95	140.00	Vcc	siderite vein cutting bedding, vein is also fractured and slightly displaced
81.40	45.00	VQ	quartz vein, rusty, porous
81.57	40.00	Cnt	sc/sm
81.74	40.00	S1	foliation
88.83	50.00	S0	bedding
88.83	30.00	S1	foliation or lineation
91.14	45.00	S1	foliation
91.14	50.00	S0	bedding
91.14	50.00	S0	bedding
103.25	40.00	S1	foliation

End of Structures ;            18 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Hole:** RH-11-22

<b>Easting:</b> 413008.10	<b>Northing:</b> 5334248.40	<b>Elevation:</b> 443.90
<b>AltEasting:</b> 0.00	<b>AltNorthing:</b> 0.00	<b>AltElevation:</b> 0.00
<b>Azimuth:</b> 180.00	<b>Dip:</b> -45.00	<b>Length:</b> 351.00 m.
<b>AltAzimuth:</b> 0.00		
<b>Hole Type:</b> DDH	<b>Zone:</b> Radio Hill	<b>Contractor:</b> orbit garant
<b>Started:</b> 12/12/2011	<b>Finished:</b> 09/01/2012	<b>Logged By:</b> Matthew Halliday
<b>Claim Number:</b>	<b>Cemented:</b> <input type="checkbox"/>	<b>Surveyed:</b> <input type="checkbox"/> <b>Casing:</b> <input type="checkbox"/>
<b>Township:</b>		
<b>Description:</b>		

***Deviations:***

<i>Depth</i>	<i>Azimuth</i>	<i>AltAzimuth</i>	<i>Dip</i>	<i>Type</i>	<i>State</i>
24.00	209.40	0.00	-43.90	EZ Shot	Inactive
132.00	253.60	0.00	-37.10	EZ Shot	Inactive
283.00	215.20	0.00	-35.30	EZ Shot	Inactive

75.00	198.90	0.00	-41.60	EZ Shot	Active
180.00	234.50	0.00	-38.70	EZ Shot	Inactive
350.00	223.50	0.00	-33.60	EZ Shot	Inactive

End of Deviations ; 6 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
0	0.00	15.60	OVB																		
0	15.60	48.00	IF-F - near surface iff, is brittle, fractured, oxidized, light grey-rusty core, bedding is clean to hydrothermally brecciated and highly altered, lost of fractures, and cemented displacements, some idb dykes, some sections are chertier and weathered, thought the iron content is atleast 30 percent magnetite,	105028 105029	15.60 21.00	21.00 27.00	5.40 6.00	52.90 46.20	0.43 1.04	43.30 49.30	1.52 1.15	0.16 0.21	0.01 0.01	0.05 0.03	0.03 0.07	0.12 0.12	0.04 0.04	0.01 0.02	0.01 0.01	0.01 0.01	0.02 0.08
1	24.40	24.65	IDB - fg, darkgreen, massive																		
				105030	27.00	33.00	6.00	54.80	3.00	35.80	2.51	0.20	0.01	0.02	0.21	0.17	0.04	0.02	0.01	0.01	0.33
1	29.90	32.65	IDB - highly fractured, rusty, oxidized iron formation mixed in, poor recovery, green-rusty core																		
				105031	33.00	39.00	6.00	52.50	4.15	34.60	3.00	0.39	0.12	0.10	0.29	0.29	0.11	0.02	0.01	0.01	0.16
1	36.00	37.30	IDB - green to greenish grey, weathered, some micaceous surfaces weatherd, rusty soft weathered fractures																		
				105032	39.00	45.00	6.00	55.70	1.73	35.90	2.64	0.22	0.01	0.09	0.12	0.16	0.09	0.01	0.01	0.01	0.07
1	44.15	45.10	IDB - green to greenish grey, weathered, rubbly sections, rusty soft weathered fractures	105033	45.00	51.00	6.00	56.40	0.08	36.20	2.93	0.72	0.01	0.05	0.01	0.04	0.09	0.01	0.01	0.01	0.03
0	48.00	180.00	IF-F - the core is medium-light grey, the iron content is around 35% upto 45-50% locally																		



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
			and maybe as low a 20% locally. Banding alternates between 5-50 degrees, there are many zones of deformation where banding is lost, though the whole section is mostly free of sulphides and very little siderite veining. There are dykes, but not much oxidation, and no faults. The is also very little chloritized mud, the unit is almost entirely chert and magnetite baning, the magnetite thicknes ranges from mm-7cm. On average about 1cm thick.																		
1	48.50	49.00	IDB - green to greenish grey, weathered, rusty soft weathered fractures	105034	51.00	57.00	6.00	57.60	0.07	35.60	2.94	0.68	0.01	0.05	0.01	0.03	0.09	0.01	0.01	0.02	
				105035	57.00	63.00	6.00	63.70	0.43	30.40	2.53	0.58	0.01	0.06	0.03	0.05	0.08	0.01	0.01	0.05	
				105037	63.00	69.00	6.00	69.90	0.07	25.50	1.85	0.20	0.01	0.04	0.01	0.03	0.06	0.01	0.01	0.05	
				105038	69.00	75.00	6.00	67.50	0.09	27.90	1.83	0.42	0.01	0.06	0.01	0.05	0.06	0.01	0.01	0.11	
				105039	75.00	78.00	3.00	66.00	0.08	27.50	2.22	0.34	0.01	0.05	0.01	0.03	0.07	0.01	0.01	0.22	
				105040	78.00	84.00	6.00	56.70	4.90	27.90	3.63	0.56	0.31	0.63	0.29	0.22	0.10	0.02	0.01	0.16	
1	78.67	81.42	IDB - medium grained, light green - light grey, very soft and weathered, some gouge zones, some weathered mud fill (in situ) mild oxidation and some micacious fracture surfaces, possiblke fault zone	105041	84.00	90.00	6.00	60.50	0.10	33.50	2.38	0.32	0.01	0.07	0.01	0.05	0.09	0.01	0.01	0.11	
				105043	90.00	96.00	6.00	63.00	0.70	28.20	2.45	0.64	0.01	0.05	0.04	0.04	0.08	0.01	0.01	0.04	
1	95.50	95.80	IDB																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
			- green, carb fracture fill, massive, non fractured	105044	96.00	102.00	6.00	61.60	0.10	31.40	2.63	0.43	0.01	0.04	0.06	0.04	0.10	0.01	0.01	0.01	0.07
				105045	102.00	108.00	6.00	49.30	0.09	44.30	2.38	0.38	0.01	0.06	0.01	0.06	0.11	0.01	0.01	0.01	0.03
				105046	108.00	114.00	6.00	48.20	0.09	44.60	2.54	0.53	0.01	0.06	0.01	0.09	0.08	0.01	0.01	0.01	0.15
				105048	114.00	120.00	6.00	47.40	0.06	46.00	1.65	0.37	0.01	0.03	0.01	0.08	0.05	0.01	0.01	0.01	0.04
				105049	120.00	126.35	6.35	45.30	3.01	43.30	3.67	0.93	0.07	0.12	0.16	0.12	0.10	0.02	0.01	0.01	0.01
1	124.50	126.35	IDB - green, massive, finegrained	105050	126.35	132.00	5.65	46.10	0.04	50.90	1.37	0.47	0.01	0.03	0.01	0.09	0.05	0.01	0.01	0.01	0.02
				105051	132.00	138.00	6.00	47.30	1.62	43.70	2.51	1.05	0.09	0.10	0.14	0.14	0.05	0.01	0.01	0.01	0.03
1	135.78	136.47	IDB - green, massive, finegrained	105052	138.00	144.00	6.00	48.00	0.97	42.40	1.82	0.48	0.02	0.11	0.10	0.13	0.07	0.03	0.01	0.01	0.11
1	140.20	141.05	IDB - dark green, fine grained, weathered, soft, micacious surfaces, some iron mixed in	105053	144.00	150.00	6.00	41.30	1.39	46.00	2.57	1.35	0.01	0.09	0.12	0.19	0.07	0.01	0.01	0.01	1.39
				105054	150.00	156.00	6.00	46.60	0.06	51.50	0.82	0.25	0.01	0.02	0.01	0.12	0.03	0.01	0.01	0.01	0.08
				105055	156.00	162.00	6.00	49.10	0.12	46.30	1.64	0.56	0.01	0.06	0.01	0.09	0.05	0.01	0.01	0.01	0.13
				105056	162.00	168.00	6.00	47.90	0.44	39.60	2.36	0.50	0.01	0.07	0.12	0.04	0.10	0.01	0.01	0.01	0.15
				105057	168.00	174.00	6.00	48.10	0.19	48.00	0.89	0.31	0.01	0.08	0.01	0.07	0.03	0.01	0.01	0.01	0.20
				105058	174.00	180.00	6.00	40.60	0.26	51.60	1.19	0.57	0.01	0.08	0.01	0.06	0.05	0.01	0.01	0.01	0.50
0	180.00	194.00	IF-F - lighter grey and rust coloured core, minor brecciation, fluid alteration and bleaching.	105059	180.00	186.00	6.00	44.10	0.40	40.90	1.91	0.33	0.01	0.05	0.01	0.04	0.09	0.01	0.01	0.01	0.97

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
1	181.00	191.00	Like a small fault, extremely weathered core at 191, 10cm of weathered to rusty sand. Hematite staining on some of the fractures in the unit. The core is fractured moderately. FZ - possibly a fault zone, weathered and fractured core	105060	186.00	192.00	6.00	46.70	0.88	43.00	1.61	0.33	0.01	0.02	0.06	0.13	0.06	0.01	0.01	0.53
0	194.00	236.00	IF-F - medium to dark grey, banding is presentm many of the bands have been displaced. There are some small intervals that may be approaching if-e, pyrite is becoming more prevalent, and the start of some pyrite overprinting of magnetit has been seen, very early stage. Localized pyrite almost massive, fine medium grained,.siderite and pyite veining present.	105061 105063 105064	192.00 198.00 204.00	198.00 204.00 210.00	6.00 6.00 6.00	47.90 45.10 43.20	0.07 0.07 2.71	46.90 49.60 44.50	1.46 1.10 2.43	0.33 0.47 1.23	0.01 0.01 0.26	0.04 0.01 0.12	0.01 0.01 0.19	0.09 0.09 0.30	0.03 0.03 0.05	0.01 0.01 0.01	0.01 0.01 0.01	0.47 0.95 1.64
1	206.80	207.73	IDB - green massive, fine grained, black-grey mica fracture surfaces.																	
1	209.53	210.32	IDB - green massive, fine grained, black-grey mica fracture surfaces. Coarser grained than last, less mica	105065	210.00	213.00	3.00	45.50	1.45	42.40	1.72	1.72	0.36	0.19	0.07	0.14	0.05	0.01	0.01	2.52
1	216.85	220.65	IDB - grey-green matte and dull, still has the mica fracture surfaces, but the rock seems different,	105066 105067	213.00 216.85	216.85 220.65	3.85 3.80	44.90 57.20	1.22 14.30	46.80 11.00	1.62 4.01	1.05 1.74	0.25 3.58	0.08 1.47	0.05 0.01	0.11 0.42	0.05 0.06	0.02 0.03	0.01 0.02	1.19 0.01

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	
			than the other dykes, it has a soapy or greasy feeling. Many micro fractures, bottom is sheared.	105068	220.65	225.00	4.35	46.80	0.28	47.50	1.10	0.49	0.02	0.05	0.01	0.08	0.04	0.01	0.01	0.01	0.40
				105069	225.00	231.00	6.00	52.50	0.19	41.80	1.61	0.53	0.01	0.08	0.06	0.06	0.03	0.01	0.01	0.01	0.46
				105070	231.00	237.00	6.00	48.00	0.93	44.90	1.78	0.93	0.01	0.08	0.08	0.12	0.03	0.02	0.01	0.01	0.62
1	233.60	233.95	IDB - green massive, fine grained, black-grey mica fracture surfaces. Sharp contacts, cross cutting bedding,																		
0	236.00	264.40	IF-F - bandind less prevelent, zones of hbx, pyrite content is increasing, though most is secondary veins and fracturesm, small sections of chloritized mud, and chlorite in fracture fill, many small siderite veins and pyrite veins, siderite content locally could be upto 10percent over a m.	105071	237.00	243.00	6.00	45.30	0.13	47.80	0.80	0.13	0.01	0.05	0.01	0.07	0.02	0.01	0.01	0.01	4.22
				105072	243.00	249.00	6.00	47.10	0.19	44.10	1.40	0.48	0.01	0.05	0.01	0.07	0.05	0.01	0.01	0.01	1.25
				105073	249.00	255.00	6.00	38.70	0.13	50.70	1.02	0.30	0.01	0.02	0.01	0.09	0.04	0.01	0.01	0.01	0.75
				105075	255.00	261.00	6.00	46.70	0.35	46.60	0.93	0.43	0.01	0.01	0.02	0.13	0.04	0.01	0.01	0.01	1.20
				105076	261.00	267.00	6.00	49.40	2.33	32.50	3.66	2.46	0.01	0.20	0.14	0.13	0.08	0.02	0.01	0.01	0.08
0	264.00	293.00	IF-F - banding prominent except in localized sections, generally @30 0.5-1.0cm thickness, tr fg py in localized fractures, local sections exhibit chl alt, dark grey-pale grey mag-chert banding, fracturing only prominent locally with chl fracture filling, minor siderite vns <10%, local bx <15cm length																		
1	264.40	265.10	IDB - pale greenish grey, fg, massive, minor irregular carb fract's, contacts indistinct and irregular																		

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>
								%	%	%	%	%	%	%	%	%	%	%	%	%
				105077	267.00	273.00	6.00	45.40	0.49	40.20	2.39	1.23	0.05	0.16	0.01	0.05	0.06	0.01	0.01	0.05
				105078	273.00	279.00	6.00	49.40	0.30	41.10	2.15	0.92	0.03	0.12	0.02	0.11	0.06	0.01	0.01	0.03
				105079	279.00	285.00	6.00	54.80	0.22	39.20	1.89	0.72	0.01	0.11	0.01	0.09	0.05	0.01	0.01	0.07
				105080	285.00	291.00	6.00	52.70	0.12	42.40	1.37	0.57	0.01	0.06	0.01	0.08	0.04	0.01	0.01	0.16
				105081	291.00	297.00	6.00	50.50	0.05	46.80	1.05	0.47	0.01	0.03	0.01	0.09	0.03	0.01	0.01	0.03
0	293.00	303.40	IF-F	105083	297.00	300.00	3.00	56.50	0.14	38.80	1.76	0.41	0.01	0.08	0.03	0.06	0.03	0.01	0.01	0.02
			- mag banding more prominent than previous interval, local section of IF-E 293.0-295.1, banding generally @40 0.5-1.5cm thickness, local hem alt 293.0-293.9, only minor fracturing with chl filling, dark grey-pale grey mag-chert banding, localized tight to open folding, minor siderite vns <5%, tr mg-cg py as mag replacement and along fractures, only minor siderite, trailing contact sharp @37	105084	300.00	303.40	3.40	49.00	0.09	45.80	1.41	0.94	0.01	0.04	0.01	0.08	0.03	0.01	0.01	0.02
0	303.40	333.90	IF-F																	
			- interbanded IF-F - IDB (65% IF-F, 35% IDB), prominent mag banding, banding @40-70 0.5-4.0cm thickness, only minor fracturing with chl filling, dark grey-pale grey mag-chert banding, only very localized evidence of folding, minor irregular hairline carb frags throughout, 2% mg to cg py locally highly conc, predominantly as mag replacement, IDB as described below																	
1	303.40	304.80	IDB	105085	303.40	309.00	5.60	44.50	7.43	23.30	5.37	5.86	1.92	0.70	0.47	0.24	0.10	0.04	0.03	0.03
			- pale greenish grey, fg to mg equigranular, massive, minor carb alt, very homogeneous in appearance																	

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**Lithology and Assays:**

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i>	<i>Al2O3</i>	<i>Fe2O3</i>	<i>MgO</i>	<i>CaO</i>	<i>Na2O</i>	<i>K2O</i>	<i>TiO2</i>	<i>P2O5</i>	<i>MnO</i>	<i>Cr2O3</i>	<i>V2O5</i>	<i>S</i>	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	305.30	306.20	IDB - pale greenish grey, fg to mg equigranular, massive, minor carb alt, very homogeneous in appearance, minor chl fracturing generally @60																		
1	306.60	307.10	IDB - pale greenish grey, fg to mg equigranular, massive, minor carb alt, very homogeneous in appearance																		
1	313.60	315.20	IDB - pale greenish grey, fg to mg equigranular, massive, minor carb alt, very homogeneous in appearance, 5% 1-5mm carb fractures generally @20	105086 105087	309.00 315.00	315.00 321.00	6.00 6.00	44.50 46.90	2.31 4.81	38.80 32.90	2.64 4.25	3.83 3.27	0.57 0.33	0.12 0.13	0.16 0.34	0.11 0.17	0.06 0.07	0.02 0.04	0.01 0.02	0.20 0.20	
1	320.20	324.50	IDB - brownish grey, mg equigranular, massive, minor carb alt, very homogeneous in appearance	105088	321.00	327.00	6.00	44.20	9.03	17.80	7.06	6.43	2.09	0.27	0.62	0.26	0.15	0.06	0.03	0.03	
1	326.80	327.50	IDB - brownish grey, mg, slightly porphyritic texture with 10% biot flakes in a slightly finer grained predominantly plag matrix	105089	327.00	330.00	3.00	47.20	3.52	29.30	3.65	4.83	0.86	0.35	0.19	0.23	0.09	0.02	0.01	0.28	
1	331.40	332.50	HBX - coarsely bx and fractured with chl filling	105090	330.00	333.90	3.90	51.60	0.40	37.70	2.06	0.91	0.02	0.14	0.01	0.10	0.04	0.01	0.01	0.49	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**Lithology and Assays:**

Level	From	To	Description	Sample Number	From	To	length	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	V2O5	S	
								%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	333.50	333.70	IF-G - local section of almost complete replacement of mag by py, 25% fg py replacement																		
0	333.90	343.30	SM - greenish-grey locally bleached, vfg, well sorted, well bedded with 20% pale to dark grey chert beds generally @30-55, 1-2% fg py locally conc @333.9-334.1 & 340.7, minor hairline, irregular chl-carb fract's, local sections very soft (H=2) (minnesotaite?)																		
1	340.60	340.90	SM - local moderately fract'd section, bleached, chl-crab-py fracture-filling, 5% fg py predominantly as fracture-filling highly conc @340.7, fractures highly irregular, ASSAY for AU	14453	340.60	340.90	0.30	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00
0	343.30	351.00	SM - dark grey, well sorted, locally bedded, only very minor chert beds evident, minor carb-chl fractures throughout generally concordant to bedding, bedding generally @60, 2% fg-cg py as fracture-filling locally highly conc																		
1	346.50	346.80	IDB - porphyritic, bleached pale grey, 20% cg, euhedral px in a fg intermediate matrix, contacts sharp @65																		
1	347.00	347.30	SM - 5% fg to cg py as fracture-filling, fract's generally	14454	347.00	347.30	0.30	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00	-1.00

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Lithology and Assays:*

<i>Level</i>	<i>From</i>	<i>To</i>	<i>Description</i>	<i>Sample Number</i>	<i>From</i>	<i>To</i>	<i>length</i>	<i>SiO2</i> %	<i>Al2O3</i> %	<i>Fe2O3</i> %	<i>MgO</i> %	<i>CaO</i> %	<i>Na2O</i> %	<i>K2O</i> %	<i>TiO2</i> %	<i>P2O5</i> %	<i>MnO</i> %	<i>Cr2O3</i> %	<i>V2O5</i> %	<i>S</i> %	
			concordant to bedding @60, ASSAY for AU																		

End of Lithology and Assays ;



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-**RadioHill** DDH2011.accdb*

**RQD:**

<b>From</b>	<b>To</b>	<b>length</b>	<b>Pces&gt;100</b>	<b>Calcu</b>	<b>RQPces&lt;100</b>	<b>talReco</b>	<b>Recovery</b>	<b>Fractures</b>	<b>acts/Leng</b>	<b>Veins</b>	<b>ains/Leng</b>	<b>Angle</b>	<b>Description</b>
			<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>	<b>%</b>						
15.00	18.00	3.00	0.00	0.00	0.70	0.00	2.30	0.00	0.00	0.00	0.00	0.00	fractured, oxidized
18.00	21.00	3.00	0.00	0.00	1.08	0.00	2.78	0.00	0.00	0.00	0.00	0.00	fractured, oxidized
21.00	24.00	3.00	0.00	0.00	1.33	0.00	2.10	0.00	0.00	0.00	0.00	0.00	fractured, oxidized
24.00	27.00	3.00	0.00	0.00	0.80	0.00	2.64	0.00	0.00	0.00	0.00	0.00	slightly fractured, slightly oxidized
27.00	30.00	3.00	0.00	0.00	0.52	0.00	2.90	0.00	0.00	0.00	0.00	0.00	rubble at end only, slightly oxidized
30.00	33.00	3.00	0.00	0.00	1.22	0.00	1.22	0.00	0.00	0.00	0.00	0.00	fractured, oxidized
33.00	36.00	3.00	0.00	0.00	1.45	0.00	2.42	0.00	0.00	0.00	0.00	0.00	fractured, oxidized
36.00	39.00	3.00	0.00	0.00	0.90	0.00	2.70	0.00	0.00	0.00	0.00	0.00	fractured, oxidized
39.00	42.00	3.00	0.00	0.00	1.60	0.00	2.98	0.00	0.00	0.00	0.00	0.00	fractured, oxidized
42.00	45.00	3.00	0.00	0.00	1.60	0.00	2.90	0.00	0.00	0.00	0.00	0.00	fractured, oxidized
45.00	48.00	3.00	0.00	0.00	0.71	0.00	3.00	0.00	0.00	0.00	0.00	0.00	slightly fractured, slight ox
48.00	51.00	3.00	0.00	0.00	0.54	0.00	2.94	0.00	0.00	0.00	0.00	0.00	slightly fractured, slight ox
51.00	54.00	3.00	0.00	0.00	0.37	0.00	3.00	0.00	0.00	0.00	0.00	0.00	mild ox
54.00	57.00	3.00	0.00	0.00	0.10	0.00	3.12	0.00	0.00	0.00	0.00	0.00	mild local ox
57.00	60.00	3.00	0.00	0.00	0.35	0.00	3.00	0.00	0.00	0.00	0.00	0.00	mild local ox
60.00	63.00	3.00	0.00	0.00	0.21	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
63.00	66.00	3.00	0.00	0.00	0.25	0.00	3.02	0.00	0.00	0.00	0.00	0.00	
66.00	69.00	3.00	0.00	0.00	0.10	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
69.00	72.00	3.00	0.00	0.00	0.25	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
72.00	75.00	3.00	0.00	0.00	0.20	0.00	3.01	0.00	0.00	0.00	0.00	0.00	
75.00	78.00	3.00	0.00	0.00	0.45	0.00	2.90	0.00	0.00	0.00	0.00	0.00	
78.00	81.00	3.00	0.00	0.00	1.25	0.00	2.35	0.00	0.00	0.00	0.00	0.00	rubby dyke
81.00	84.00	3.00	0.00	0.00	0.58	0.00	3.01	0.00	0.00	0.00	0.00	0.00	
84.00	87.00	3.00	0.00	0.00	0.00	0.00	2.93	0.00	0.00	0.00	0.00	0.00	
87.00	90.00	3.00	0.00	0.00	0.50	0.00	3.07	0.00	0.00	0.00	0.00	0.00	
90.00	93.00	3.00	0.00	0.00	0.12	0.00	3.02	0.00	0.00	0.00	0.00	0.00	
93.00	96.00	3.00	0.00	0.00	0.53	0.00	2.97	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	%ces>100	Calcu	RQP	%ces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%			%								
96.00	99.00	3.00	0.00	0.00	0.17	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00	
99.00	102.00	3.00	0.00	0.00	0.50	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	
102.00	105.00	3.00	0.00	0.00	0.13	0.00	2.87	0.00	0.00	0.00	0.00	0.00	0.00	
105.00	108.00	3.00	0.00	0.00	0.18	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	
108.00	111.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	
111.00	114.00	3.00	0.00	0.00	0.25	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	
114.00	117.00	3.00	0.00	0.00	0.07	0.00	2.97	0.00	0.00	0.00	0.00	0.00	0.00	
117.00	120.00	3.00	0.00	0.00	0.00	0.00	2.97	0.00	0.00	0.00	0.00	0.00	0.00	
120.00	123.00	3.00	0.00	0.00	0.15	0.00	3.05	0.00	0.00	0.00	0.00	0.00	0.00	
123.00	126.00	3.00	0.00	0.00	0.75	0.00	3.05	0.00	0.00	0.00	0.00	0.00	0.00	
126.00	129.00	3.00	0.00	0.00	0.40	0.00	2.92	0.00	0.00	0.00	0.00	0.00	0.00	
129.00	132.00	3.00	0.00	0.00	0.00	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	
132.00	135.00	3.00	0.00	0.00	0.25	0.00	3.05	0.00	0.00	0.00	0.00	0.00	0.00	
135.00	138.00	3.00	0.00	0.00	0.30	0.00	2.97	0.00	0.00	0.00	0.00	0.00	0.00	
138.00	141.00	3.00	0.00	0.00	0.53	0.00	2.60	0.00	0.00	0.00	0.00	0.00	0.00	dyke
141.00	144.00	3.00	0.00	0.00	0.90	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	
144.00	147.00	3.00	0.00	0.00	0.20	0.00	2.93	0.00	0.00	0.00	0.00	0.00	0.00	
147.00	150.00	3.00	0.00	0.00	0.32	0.00	2.94	0.00	0.00	0.00	0.00	0.00	0.00	
150.00	153.00	3.00	0.00	0.00	0.49	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	
153.00	156.00	3.00	0.00	0.00	0.47	0.00	2.92	0.00	0.00	0.00	0.00	0.00	0.00	
156.00	159.00	3.00	0.00	0.00	0.15	0.00	3.04	0.00	0.00	0.00	0.00	0.00	0.00	
159.00	162.00	3.00	0.00	0.00	0.32	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00	
162.00	165.00	3.00	0.00	0.00	0.22	0.00	2.91	0.00	0.00	0.00	0.00	0.00	0.00	
165.00	168.00	3.00	0.00	0.00	0.47	0.00	3.02	0.00	0.00	0.00	0.00	0.00	0.00	
168.00	171.00	3.00	0.00	0.00	0.23	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	
171.00	174.00	3.00	0.00	0.00	0.17	0.00	3.04	0.00	0.00	0.00	0.00	0.00	0.00	
174.00	177.00	3.00	0.00	0.00	0.35	0.00	3.10	0.00	0.00	0.00	0.00	0.00	0.00	
177.00	180.00	3.00	0.00	0.00	0.10	0.00	2.95	0.00	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	Pces>100	Calcu	RQPces<100	talReco	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%		%								
180.00	183.00	3.00	0.00	0.00	1.50	0.00	2.50	0.00	0.00	0.00	0.00	0.00	rubbly and weathered, hematite staining
183.00	186.00	3.00	0.00	0.00	1.50	0.00	2.85	0.00	0.00	0.00	0.00	0.00	fractured, hematite staining
186.00	189.00	3.00	0.00	0.00	2.24	0.00	2.90	0.00	0.00	0.00	0.00	0.00	oxidized fractured
189.00	192.00	3.00	0.00	0.00	1.20	0.00	2.50	0.00	0.00	0.00	0.00	0.00	oxidized, fractured, some rubble, soft zone 15cm extremely oxidized to sand
192.00	195.00	3.00	0.00	0.00	0.54	0.00	2.95	0.00	0.00	0.00	0.00	0.00	
195.00	198.00	3.00	0.00	0.00	0.00	0.00	3.12	0.00	0.00	0.00	0.00	0.00	
198.00	201.00	3.00	0.00	0.00	0.00	0.00	3.06	0.00	0.00	0.00	0.00	0.00	
201.00	204.00	3.00	0.00	0.00	0.05	0.00	3.06	0.00	0.00	0.00	0.00	0.00	
204.00	207.00	3.00	0.00	0.00	0.47	0.00	2.84	0.00	0.00	0.00	0.00	0.00	
207.00	210.00	3.00	0.00	0.00	0.57	0.00	3.06	0.00	0.00	0.00	0.00	0.00	
210.00	213.00	3.00	0.00	0.00	0.00	0.00	2.94	0.00	0.00	0.00	0.00	0.00	
213.00	216.00	3.00	0.00	0.00	0.32	0.00	2.96	0.00	0.00	0.00	0.00	0.00	
216.00	219.00	3.00	0.00	0.00	1.50	0.00	2.96	0.00	0.00	0.00	0.00	0.00	all in the dyke, soapy
219.00	222.00	3.00	0.00	0.00	0.60	0.00	2.90	0.00	0.00	0.00	0.00	0.00	all in the dyke, soapy
222.00	225.00	3.00	0.00	0.00	0.00	0.00	3.05	0.00	0.00	0.00	0.00	0.00	77cm mechanical failures
225.00	228.00	3.00	0.00	0.00	0.37	0.00	3.20	0.00	0.00	0.00	0.00	0.00	
228.00	231.00	3.00	0.00	0.00	0.00	0.00	2.92	0.00	0.00	0.00	0.00	0.00	
231.00	234.00	3.00	0.00	0.00	0.20	0.00	2.98	0.00	0.00	0.00	0.00	0.00	
234.00	237.00	3.00	0.00	0.00	0.00	0.00	3.10	0.00	0.00	0.00	0.00	0.00	
237.00	240.00	3.00	0.00	0.00	0.16	0.00	3.10	0.00	0.00	0.00	0.00	0.00	
240.00	243.00	3.00	0.00	0.00	0.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	
243.00	246.00	3.00	0.00	0.00	0.30	0.00	3.03	0.00	0.00	0.00	0.00	0.00	
246.00	249.00	3.00	0.00	0.00	0.25	0.00	2.94	0.00	0.00	0.00	0.00	0.00	
249.00	252.00	3.00	0.00	0.00	0.00	0.00	3.06	0.00	0.00	0.00	0.00	0.00	
252.00	255.00	3.00	0.00	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00	0.00	
255.00	258.00	3.00	0.00	0.00	0.00	0.00	2.92	0.00	0.00	0.00	0.00	0.00	
258.00	261.00	3.00	0.00	0.00	0.26	0.00	2.97	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

**RQD:**

From	To	length	%ces>100	Calcu	RQP	%ces<100	tal	Recove	Recovery	Fractures	acts/Leng	Veins	ains/Leng	Angle	Description
			%			%									
261.00	264.00	3.00	0.00	0.00	0.45	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
264.00	267.00	3.00	0.00	0.00	0.10	0.00	3.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
267.00	270.00	3.00	0.00	0.00	0.00	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
270.00	273.00	3.00	0.00	0.00	0.00	0.00	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
273.00	276.00	3.00	0.00	0.00	0.04	0.00	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
276.00	279.00	3.00	0.00	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
279.00	282.00	3.00	0.00	0.00	0.15	0.00	3.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
282.00	285.00	3.00	0.00	0.00	0.20	0.00	3.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
285.00	288.00	3.00	0.00	0.00	0.08	0.00	3.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
288.00	291.00	3.00	0.00	0.00	0.00	0.00	2.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
291.00	294.00	3.00	0.00	0.00	0.12	0.00	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
294.00	297.00	3.00	0.00	0.00	0.00	0.00	3.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
297.00	300.00	3.00	0.00	0.00	0.00	0.00	3.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	303.00	3.00	0.00	0.00	0.25	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
303.00	306.00	3.00	0.00	0.00	0.00	0.00	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
306.00	309.00	3.00	0.00	0.00	0.20	0.00	2.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
309.00	312.00	3.00	0.00	0.00	0.10	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
312.00	315.00	3.00	0.00	0.00	0.40	0.00	3.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
315.00	318.00	3.00	0.00	0.00	0.15	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
318.00	321.00	3.00	0.00	0.00	0.30	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
321.00	324.00	3.00	0.00	0.00	0.10	0.00	3.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
324.00	327.00	3.00	0.00	0.00	0.10	0.00	2.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
327.00	330.00	3.00	0.00	0.00	0.20	0.00	2.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
330.00	333.00	3.00	0.00	0.00	0.05	0.00	2.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
333.00	336.00	3.00	0.00	0.00	0.45	0.00	2.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
336.00	339.00	3.00	0.00	0.00	0.10	0.00	2.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
339.00	342.00	3.00	0.00	0.00	0.25	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
342.00	345.00	3.00	0.00	0.00	0.05	0.00	3.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
345.00	348.00	3.00	0.00	0.00	0.30	0.00	3.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**RQD:**

<i>From</i>	<i>To</i>	<i>length</i>	<i>Pces&gt;100</i>	<i>Calcu</i>	<i>RQPces&lt;100</i>	<i>tal</i>	<i>Recove</i>	<i>Recovery</i>	<i>Fractures</i>	<i>sacts/Leng</i>	<i>Veins</i>	<i>ains/Leng</i>	<i>Angle</i>	<i>Description</i>
348.00	351.00	3.00	0.00	0.00	0.20	0.00	2.98	0.00	0.00	0.00	0.00	0.00	0.00	

End of RQD ; 112 record(s) printed.



*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Alterations:*

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>
0.00	63.00	mild localized ox		
0.00	45.00	Oxidized		
150.00	153.00	mild ox		
180.00	188.00	mild ox		
188.00	192.00	Oxidized		
293.00	293.90	oderate hem alt banding		

End of Alterations ;            6 record(s) printed.





*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Mineralization:**

<i>From</i>	<i>To</i>	<i>Summary</i>	<i>Description</i>	<i>Texture</i>	<i>Magnetite</i>	<i>Hematite</i>	<i>Pyrrhotite</i>	<i>Pyrite</i>	<i>Siderite</i>	<i>Silica</i>	<i>Grain size</i>
15.60	48.00	IF-F			35	0	0	0	1	50	0
48.00	141.00	IF-F			35	0	0	1	1	60	0
141.00	180.00	IF-F			40	0	0	1	1	60	0
180.00	194.00	IF-F			25	1	0	1	1	70	0
194.00	236.00	IF-F			40	0	0	5	0	55	0
236.00	264.00	IF-F			30	0	0	5	3	60	0
264.00	293.00	IF-F			25	0	0	1	3	60	0
293.00	303.40	IF-F			35	3	0	1	1	55	0
303.40	333.90	IF-F			20	0	0	2	0	40	0
340.70	340.80	SM			0	0	0	5	0	0	0
347.00	347.30				0	0	0	5	0	0	0

End of Mineralizations ; 11 record(s) printed.

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
16.00	30.00	S0	banding
25.00	50.00	S0	bandind
26.70	15.00	S0	banding
44.00	45.00	S0	banding
52.00	20.00	S0	banding
65.00	5.00	S0	banding
75.30	30.00	S1	banding, blocky pulled apart
78.67	90.00	Cnt	iff/idb sharp-crosscutting
81.42	90.00	Cnt	idb/iff sharp-crosscutting
85.00	20.00	S0	banding
95.50	70.00	Cnt	iff/idb sharp-crosscutting
99.40	35.00	Cnt	extremely sharp, crosscutting
102.00	30.00	S0	banding
106.00	50.00	S0	banding
114.00	40.00	S0	banding
120.50	20.00	S0	banding
128.00	5.00	S0	banding
132.60	10.00	S0	banding
132.80	140.00	S1	displacement plane
138.40	10.00	S0	banding
151.50	50.00	S0	banding
156.00	30.00	S0	banding
170.00	5.00	S0	banding
176.00	5.00	S0	banding
190.00	40.00	S0	banding

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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**Structures:**

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
191.00	40.00	Flt	
200.75	150.00	S1	displacement plane
200.75	30.00	S0	banding
209.53	60.00	Cnt	iff/dyke
220.65	70.00	Cnt	dyke/iff
221.15	60.00	S0	banding
222.45	40.00	S0	banding
232.00	40.00	S0	banding
248.00	20.00	Vcc	series of veins .5cm - 1.5cm vcc with siderite fill and pyrite
249.50	5.00	S0	banding
264.20	50.00	Cnt	iff/dyke sharp
280.00	30.00	S0	banding
295.00	40.00	S0	banding
303.40	37.00	Cnt	IF-F - IDB
304.80	58.00	Cnt	along tight chl slip
312.20	30.00	S1	str chl slip
313.00	40.00	S0	banding
315.20	55.00	Cnt	along bull qtz-carb vn
318.50	65.00	S0	banding
320.20	25.00	Cnt	IF-F - IDB
331.00	55.00	S0	banding
333.90	65.00	Cnt	IF-F - SM/SC
338.00	70.00	S0	bedding
340.70	53.00	S1	str chl slip
350.00	60.00	S0	bedding

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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*Structures:*

<i>Depth</i>	<i>Core angle</i>	<i>Type</i>	<i>Description</i>
End of Structures ;		50 record(s) printed.	

*Satellite database created from Rogue-RadioHill DDH2011.accdb*

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## APPENDIX D Analytical Certificates





SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

### Rogue Resources

Attn : Freeman Smith

Suite 202, 200 Granville Square, Vancouver  
, V6C 1S4

Phone: 604-629-1808, Fax:604-229-0481

November 3, 2011

Date Rec. : 04 October 2011

LR Report : CA02100-OCT11

Client Ref : 144319 to 144352

## CERTIFICATE OF ANALYSIS Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
1-BLK: Sud-Sample	52.4	12.0	7.84	11.4	12.5	1.00	0.21	0.26	0.02
2: 144319	49.1	0.61	30.5	2.28	1.12	0.03	0.02	0.02	0.16
3: 144320	37.1	3.60	38.9	2.78	1.29	0.08	0.04	0.12	0.13
4: 144321	62.8	0.49	22.7	2.00	0.47	0.01	0.08	0.02	0.06
5: 144322	68.2	0.56	20.2	1.67	0.51	0.04	0.14	0.02	0.12
6: 144323	59.5	1.67	27.0	2.20	0.67	0.08	0.28	0.07	0.08
7: 144324	69.3	0.47	23.4	1.84	0.65	0.05	0.17	0.02	0.12
8: 144325	61.9	0.53	27.7	2.28	1.08	0.06	0.24	0.03	0.05
9: 144326	96.7	0.93	1.08	0.26	0.42	0.26	0.12	0.03	< 0.01
10: 144327	55.2	0.45	34.7	3.20	1.26	0.04	0.19	0.02	0.05
11: 144328	69.2	0.09	25.9	2.30	0.76	0.02	0.06	< 0.01	0.02
12: 144329	59.9	0.12	32.4	2.74	0.90	0.01	0.07	< 0.01	0.04
13: 144330	58.0	0.14	35.2	3.29	0.96	0.01	0.08	< 0.01	0.03
14: 144331	62.3	0.13	31.1	3.23	0.89	0.01	0.08	0.01	0.04
15: 144332	48.9	0.10	41.3	3.24	0.86	0.01	0.06	< 0.01	0.03
16: 144333	57.8	0.06	34.8	3.76	0.64	< 0.01	0.04	< 0.01	0.04
17: 144334	43.8	0.11	43.5	3.58	0.84	< 0.01	0.07	0.01	0.03

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
1-BLK: Sud-Sample	0.15	0.11	0.03	2.09	100.1	0.09	0.08	0.9	1.2
2: 144319	0.06	< 0.01	< 0.01	15.5	99.5	0.50	0.51	1.4	2.0
3: 144320	0.20	< 0.01	< 0.01	14.6	98.9	6.44	6.92	2.8	3.8
4: 144321	0.20	< 0.01	< 0.01	11.5	100.3	1.09	1.02	1.5	2.1
5: 144322	0.10	< 0.01	< 0.01	8.80	100.4	0.56	0.48	2.6	3.6
6: 144323	0.15	< 0.01	< 0.01	7.24	99.0	3.13	2.95	4.7	6.5
7: 144324	0.08	< 0.01	< 0.01	3.86	99.9	0.74	0.76	7.6	10.5
8: 144325	0.08	< 0.01	< 0.01	5.71	99.6	0.39	0.35	8.8	12.2
9: 144326	< 0.01	< 0.01	< 0.01	0.63	100.4	0.04	< 0.05	1.3	1.8
10: 144327	0.18	< 0.01	< 0.01	3.66	98.9	0.68	0.46	11.8	16.3
11: 144328	0.10	< 0.01	< 0.01	1.60	100.0	0.29	0.29	8.8	12.1
12: 144329	0.17	< 0.01	< 0.01	2.43	98.8	1.77	1.74	10.7	14.8
13: 144330	0.16	< 0.01	< 0.01	1.92	99.8	0.33	0.31	12.0	16.6
14: 144331	0.14	< 0.01	< 0.01	1.66	99.6	0.49	0.48	10.0	13.8
15: 144332	0.23	< 0.01	< 0.01	4.81	99.6	6.64	6.28	9.7	13.4
16: 144333	0.23	< 0.01	< 0.01	2.23	99.7	0.41	0.41	12.0	16.6
17: 144334	0.42	< 0.01	< 0.01	6.99	99.3	6.61	6.30	11.0	15.2

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
18: 144335	62.7	0.08	30.1	3.05	0.47	0.01	0.05	< 0.01	0.03
19: 144336	52.9	2.26	33.8	3.76	1.20	0.58	0.07	0.10	0.09
20: 144337	52.1	0.31	37.3	3.61	1.72	0.03	0.13	0.02	0.12
21: 144338	94.6	1.63	1.27	0.58	0.71	0.42	0.21	0.05	0.01
22: 144339	46.2	0.24	43.1	4.15	1.70	0.02	0.13	0.01	0.14
23: 144340	41.1	0.18	46.7	4.86	1.37	0.02	0.10	< 0.01	0.06
24: 144341	42.8	0.60	45.2	4.95	1.64	< 0.01	0.11	0.03	0.06
25: 144342	42.5	1.21	38.3	4.40	3.21	0.03	0.17	0.06	0.07
26: 144343	43.3	0.12	45.1	4.43	1.02	0.02	0.07	< 0.01	0.07
27: 144344	44.1	0.11	44.3	4.42	1.12	0.02	0.07	0.01	0.08
28: 144345	42.8	0.16	43.1	4.62	1.60	< 0.01	0.06	< 0.01	0.07
29: 144346	62.6	3.61	25.5	2.58	0.38	0.05	0.17	0.15	0.04
30: 144347	46.8	0.14	41.9	4.50	1.47	0.02	0.09	< 0.01	0.05
31: 144348	56.1	3.22	29.2	2.67	0.98	0.17	0.51	0.15	0.07
32: 144349	66.5	2.09	21.5	2.09	1.20	0.05	0.24	0.10	0.03
33: 144350	50.6	0.11	39.4	4.51	1.29	0.02	0.07	< 0.01	0.11
34: 144351	47.8	0.26	39.1	4.12	2.51	0.02	0.12	0.01	0.13
35: 144352	52.9	13.0	10.5	4.68	6.86	2.60	0.36	0.58	0.11

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
18: 144335	0.29	< 0.01	< 0.01	2.81	99.6	0.20	0.18	9.9	13.7
19: 144336	0.30	< 0.01	< 0.01	3.91	99.0	1.76	1.73	10.5	14.5
20: 144337	0.16	< 0.01	< 0.01	3.84	99.3	0.14	0.13	14.8	20.5
21: 144338	< 0.01	0.01	< 0.01	0.69	100.1	< 0.01	< 0.05	1.2	1.6
22: 144339	0.22	< 0.01	< 0.01	3.49	99.4	0.17	0.17	18.8	26.0
23: 144340	0.42	< 0.01	< 0.01	4.29	99.1	0.17	0.17	20.6	28.4
24: 144341	0.30	< 0.01	< 0.01	4.04	99.8	0.12	0.13	20.3	28.0
25: 144342	0.34	< 0.01	< 0.01	8.12	98.4	0.86	0.83	13.9	19.2
26: 144343	0.27	< 0.01	< 0.01	4.95	99.3	0.28	0.27	19.3	26.7
27: 144344	0.27	< 0.01	< 0.01	5.02	99.6	0.28	0.25	18.8	26.0
28: 144345	0.33	< 0.01	< 0.01	6.40	99.1	0.20	0.19	15.6	21.5
29: 144346	0.21	0.01	< 0.01	3.45	98.8	1.79	1.78	5.1	7.1
30: 144347	0.40	< 0.01	< 0.01	4.06	99.4	0.30	0.28	14.4	19.9
31: 144348	0.37	0.01	< 0.01	5.34	98.8	2.02	1.80	5.1	7.1
32: 144349	0.45	0.01	< 0.01	4.58	98.9	0.77	0.76	4.4	6.1
33: 144350	0.28	< 0.01	< 0.01	2.97	99.3	0.36	0.36	12.0	16.6
34: 144351	0.22	< 0.01	< 0.01	4.87	99.2	0.37	0.34	12.7	17.5
35: 144352	0.15	0.08	0.03	8.34	100.1	0.03	< 0.05	0.6	0.9

Control Quality Analysis - Not suitable for commercial exchange

\_\_\_\_\_  
**April Rice**  
 Project Coordinator



**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2H0

Phone: 705-652-2000 FAX: 705-652-6365

**LR Report : CA02100-OCT11**

**Email:** freeman.smith@roguemining.com; kevinmontgomery@persona.ca;



SGS Canada Inc.

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Rogue Resources  
Attn : Freeman Smith

Suite 202, 200 Granville Square, Vancouver  
, V6C 1S4  
Phone: 604-629-1808, Fax:604-229-0481

November 10, 2011

Date Rec. : 05 October 2011  
LR Report : CA02160-OCT11  
Client Ref : 144353 to 144378

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
1-BLK: Sud-Sample Prep BLK	51.7	12.9	7.29	11.5	12.8	1.12	0.21	0.23	0.01
2: 144353	54.0	0.38	42.0	1.45	0.83	0.01	0.14	0.02	0.13
3: 144354	48.4	0.29	47.3	1.72	0.69	0.01	0.11	0.01	0.13
4: 144355	51.2	0.52	41.7	2.28	1.04	0.02	0.19	0.02	0.12
5: 144356	46.8	0.18	47.5	2.14	0.80	0.01	0.08	< 0.01	0.13
6: 144357	48.2	0.89	42.1	3.06	0.46	< 0.01	0.07	0.03	0.08
7: 144358	25.2	6.65	48.4	2.70	3.06	1.09	0.70	0.61	0.10
8: 144359	56.5	0.69	33.6	2.10	0.88	< 0.01	0.10	0.04	0.11
9: 144360	46.9	0.16	49.9	1.43	0.68	0.02	0.06	0.01	0.13
10: 144361	51.9	0.29	42.7	1.91	0.99	0.02	0.08	0.02	0.17
11: 144362	53.5	2.14	35.3	2.48	1.20	0.05	0.09	0.13	0.15
12: 144363	57.4	0.42	34.6	1.82	0.33	0.01	0.09	0.02	0.10
13: 144364	68.1	0.15	27.1	1.58	0.47	< 0.01	0.06	< 0.01	0.05
14: 144365	51.0	0.12	46.3	1.45	0.70	0.01	0.06	< 0.01	0.13
15: 144366	48.0	0.08	48.8	1.64	0.71	< 0.01	0.05	< 0.01	0.13

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
1-BLK: Sud-Sample Prep BLK	0.15	0.10	0.02	2.02	100.0	0.04	0.05	0.6	0.9
2: 144353	0.04	< 0.01	< 0.01	0.78	99.8	0.02	< 0.05	20.8	28.8
3: 144354	0.04	< 0.01	< 0.01	0.76	99.6	< 0.01	< 0.05	20.0	27.7
4: 144355	0.08	< 0.01	< 0.01	2.99	100.1	0.02	< 0.05	9.6	13.3
5: 144356	0.06	< 0.01	< 0.01	2.39	100.0	0.01	< 0.05	11.7	16.2
6: 144357	0.12	< 0.01	< 0.01	4.73	99.8	1.57	1.26	5.4	7.4
7: 144358	0.09	0.03	0.03	9.04	97.7	---nss---	---nss	---	---
8: 144359	0.11	< 0.01	< 0.01	5.38	99.5	0.89	0.54	6.8	9.4
9: 144360	0.03	< 0.01	< 0.01	0.93	100.2	0.06	< 0.05	22.6	31.2
10: 144361	0.06	< 0.01	< 0.01	2.21	100.3	0.15	0.07	14.4	19.9
11: 144362	0.08	< 0.01	< 0.01	4.11	99.2	1.35	0.75	8.6	11.9
12: 144363	0.10	< 0.01	< 0.01	3.97	98.9	1.63	1.39	8.8	12.2
13: 144364	0.07	< 0.01	< 0.01	1.54	99.1	0.33	0.30	9.3	12.8
14: 144365	0.03	< 0.01	< 0.01	0.35	100.1	0.13	0.12	25.3	35.0
15: 144366	0.03	< 0.01	< 0.01	0.28	99.7	0.17	0.16	27.0	37.3

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
16: 144367	48.6	0.07	49.0	1.32	0.56	< 0.01	0.05	< 0.01	0.12
17: 144368	46.1	0.07	51.4	1.59	0.49	0.03	0.05	< 0.01	0.09
18: 144369	53.9	0.29	40.5	1.66	0.61	0.01	0.08	0.02	0.09
19: 144370	49.3	0.07	48.0	1.67	0.60	< 0.01	0.05	< 0.01	0.08
20: 144371	49.8	0.15	42.5	3.94	0.86	< 0.01	0.03	< 0.01	0.07
21: 144372	54.3	0.24	36.3	3.34	1.56	< 0.01	0.05	< 0.01	0.05
22: 144373	68.3	0.11	24.4	2.26	0.28	< 0.01	0.05	0.01	0.03
23: 144374	8.00	0.95	86.2	< 0.01	0.04	0.02	0.03	0.05	0.12
24: 144375	56.1	0.06	36.9	3.61	0.90	< 0.01	0.04	< 0.01	0.07
25: 144376	51.1	1.84	36.9	3.64	0.56	0.01	0.11	0.14	0.04
26: 144377	47.6	0.44	41.0	2.90	0.83	< 0.01	0.10	0.02	0.02
27: 144378	49.6	14.6	15.5	6.47	5.25	2.27	0.54	0.97	0.09

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
16: 144367	0.02	< 0.01	< 0.01	-0.17	99.6	0.16	0.15	28.7	39.6
17: 144368	0.02	< 0.01	< 0.01	-0.06	99.8	0.22	0.20	29.3	40.5
18: 144369	0.06	< 0.01	< 0.01	2.25	99.5	2.60	2.44	18.4	25.4
19: 144370	0.04	< 0.01	< 0.01	0.39	100.3	0.07	0.08	24.6	34.0
20: 144371	0.21	< 0.01	< 0.01	2.47	100.1	0.07	0.07	10.2	14.1
21: 144372	0.20	< 0.01	< 0.01	4.17	100.3	3.31	3.08	5.9	8.1
22: 144373	0.22	< 0.01	< 0.01	3.39	99.0	3.58	3.14	5.6	7.7
23: 144374	1.01	< 0.01	< 0.01	3.20	99.7	---nss---	---nss---	---	---
24: 144375	0.17	< 0.01	< 0.01	2.35	100.2	0.26	0.24	7.2	10.0
25: 144376	0.25	< 0.01	< 0.01	4.12	98.8	4.77	4.71	11.3	15.6
26: 144377	0.25	< 0.01	< 0.01	5.46	98.7	7.94	7.50	15.3	21.1
27: 144378	0.22	< 0.01	0.05	4.40	99.9	0.06	0.05	0.8	1.1

Control Quality Analysis - Not suitable for commercial exchange



\_\_\_\_\_  
**April Rice**  
 Project Coordinator

**Email:** freeman.smith@roguemining.com; kevinmontgomery@persona.ca;



SGS Canada Inc.

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**Rogue Resources**  
Attn : Freeman Smith

Suite 202, 200 Granville Square, Vancouver  
, V6C 1S4  
Phone: 604-629-1808, Fax:604-229-0481

February 6, 2012

**Date Rec. :** 06 January 2012  
**LR Report :** CA02233-JAN12  
**Client Ref :** 144062-144072,144074-14  
4143,144145-144148

# CERTIFICATE OF ANALYSIS

## Final Report - Revised

Sample ID	Feed g	Mag g	Non Mag g	DT WR %	Magnetic Fe Fe %	Fe3O4 %
1-BLK: Sud-Sample Prep BLK	20.05	< .01	20.05	0.0	0.5	0.7
2: 144062	20.07	0.12	19.95	0.6	1.5	2.1
3: 144063	20.05	2.90	17.15	14.5	14.6	20.2
4: 144064	20.07	1.71	18.36	8.5	14.0	19.4
5: 144065	20.06	7.75	12.31	38.6	21.4	29.6
6: 144066	20.04	1.36	18.68	6.8	9.3	12.8
7: 144067	20.06	2.54	17.52	12.7	16.6	23.0
8: 144068	20.04	1.85	18.19	9.2	8.3	11.5
9: 144069	20.05	< .01	20.05	0.0	---	---
10: 144070	20.05	5.50	14.55	27.4	---	---
11: 144071	20.04	3.25	16.79	16.2	---	---
12: 144072	20.05	5.30	14.75	26.4	---	---
13: 144074	20.05	1.88	18.17	9.4	---	---
14: 144075	20.06	7.37	12.69	36.7	---	---
15: 144076	20.06	1.26	18.80	6.3	---	---
16: 144077	20.04	2.06	17.98	10.3	---	---
17: 144078	20.06	5.76	14.30	28.7	---	---
18: 144079	20.08	5.98	14.10	29.8	---	---
19: 144080	20.05	8.48	11.57	42.3	---	---
20: 144081	20.06	8.46	11.60	42.2	---	---
21: 144082	20.06	9.14	10.92	45.6	---	---
22: 144083	20.08	9.42	10.66	46.9	---	---
23: 144084	20.08	6.43	13.65	32.0	---	---
24: 144085	20.04	7.59	12.45	37.9	---	---
25: 144086	20.07	2.38	17.69	11.9	---	---
26: 144087	20.06	9.37	10.69	46.7	---	---
27: 144088	20.05	9.28	10.77	46.3	---	---
28: 144089	20.05	10.86	9.19	54.2	---	---
29: 144090	20.06	9.77	10.29	48.7	---	---
30: 144091	20.07	10.25	9.82	51.1	---	---
31: 144092	20.06	3.74	16.32	18.6	---	---



**SGS Canada Inc.**

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LR Report : CA02233-JAN12

Sample ID	Feed g	Mag g	Non Mag g	DT WR %	Magnetic Fe Fe %	Fe3O4 %
32: 144093	20.07	8.41	11.66	41.9	---	---
33: 144094	20.05	4.00	16.05	20.0	---	---
34: 144095	20.04	10.50	9.54	52.4	---	---
35: 144096	20.06	8.86	11.20	44.2	---	---
36: 144097	20.04	0.02	20.02	0.1	---	---
37: 144098	20.04	8.16	11.88	40.7	---	---
38: 144099	20.05	2.24	17.81	11.2	---	---
39: 144100	20.06	9.17	10.89	45.7	---	---
40: 144101	20.05	8.22	11.83	41.0	---	---
41: 144102	20.04	1.04	19.00	5.2	---	---
42: 144103	20.06	7.50	12.56	37.4	---	---
43: 144104	20.06	7.34	12.72	36.6	---	---
44: 144105	20.06	2.80	17.26	14.0	---	---
45: 144106	20.06	0.63	19.43	3.1	---	---
46: 144107	20.05	5.11	14.94	25.5	---	---
47: 144109	20.04	< .01	20.04	0.0	---	---
48: 144110	20.06	6.41	13.65	32.0	---	---
49: 144111	20.06	5.69	14.37	28.4	---	---
50-BLK: Sud-Sample Prep BLK	20.02	< .01	20.02	0.0	---	---
51: 144112	20.04	5.90	14.14	29.4	---	---
52: 144113	20.04	1.98	18.06	9.9	---	---
53: 144114	20.04	2.71	17.33	13.5	---	---
54: 144115	20.04	4.20	15.84	21.0	---	---
55: 144116	20.04	4.39	15.65	21.9	---	---
56: 144117	20.05	9.50	10.55	47.4	---	---
57: 144118	20.05	9.92	10.13	49.5	---	---
58: 144119	20.05	7.83	12.22	39.1	---	---
59: 144120	20.04	2.16	17.88	10.8	---	---
60: 144121	20.04	4.08	15.96	20.4	---	---
61: 144122	20.02	6.77	13.25	33.8	---	---
62: 144123	20.17	5.67	14.50	28.1	---	---
63: 144124	20.19	5.93	14.26	29.4	---	---
64: 144125	20.05	6.84	13.21	34.1	---	---
65: 144126	20.09	7.52	12.57	37.4	---	---
66: 144127	20.07	6.44	13.63	32.1	---	---
67: 144128	20.04	5.86	14.18	29.2	---	---
68: 144129	20.03	4.80	15.23	24.0	---	---
69: 144130	20.05	3.88	16.17	19.4	---	---
70: 144131	20.06	4.68	15.38	23.3	---	---
71: 144132	20.06	0.01	20.05	0.0	---	---
72: 144133	20.04	4.94	15.10	24.7	---	---
73: 144134	20.05	7.16	12.89	35.7	---	---
74: 144135	20.06	6.74	13.32	33.6	---	---
75: 144136	20.04	6.23	13.81	31.1	---	---
76: 144137	20.06	6.54	13.52	32.6	---	---
77: 144138	20.06	8.27	11.79	41.2	---	---
78: 144139	20.04	9.19	10.85	45.9	---	---
79: 144140	20.07	9.00	11.07	44.8	---	---
80: 144141	20.08	8.34	11.74	41.5	---	---
81: 144142	20.07	9.22	10.85	45.9	---	---
82: 144143	20.07	9.45	10.62	47.1	---	---

Online LIMS

**SGS Canada Inc.**

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**LR Report : CA02233-JAN12**

Sample ID	Feed g	Mag g	Non Mag g	DT WR %	Magnetic Fe Fe %	Fe3O4 %
83: 144145	20.05	< .01	20.05	0.0	---	---
84: 144146	20.08	2.36	17.72	11.8	---	---
85: 144147	20.07	< .01	20.07	0.0	---	---
86: 144148	20.06	< .01	20.06	0.0	---	---
87-DUP: 144081	20.06	8.27	11.79	41.2	---	---
88-DUP: 144101	20.04	8.26	11.78	41.2	---	---
89-REP: 144112	20.06	6.20	13.86	30.9	---	---
90-DUP: 144121	20.05	3.82	16.23	19.1	---	---
91-DUP: 144141	20.06	8.23	11.83	41.0	---	---

Control Quality Analysis - Not suitable for commercial exchange  
 This report supersedes the certificate CA02233-JAN12 issued 31-JAN-12.




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*April Rice*  
 Project Coordinator

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SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.  
Lakefield - Ontario - KOL 2HO  
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**Rogue Resources**  
Attn : Freeman Smith

Suite 202, 200 Granville Square, Vancouver  
, V6C 1S4  
Phone: 604-629-1808, Fax:604-229-0481

February 6, 2012

**Date Rec. :** 10 January 2012  
**LR Report :** CA02407-JAN12  
**Client Ref :** 105017 - 105090

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
1-BLK: Sud-Sample Pre	50.6	14.2	7.18	10.7	10.4	2.26	0.66	0.96	0.02
2: 105017	53.4	4.52	34.5	2.92	0.31	0.47	0.65	0.27	0.21
3: 105018	47.0	0.14	42.8	2.87	0.15	< 0.01	0.05	< 0.01	0.04
4: 105019	48.3	1.70	32.1	2.69	0.28	0.10	0.27	0.10	0.08
5: 105020	93.9	1.20	0.88	0.71	1.12	0.30	0.16	0.03	0.01
6: 105021	45.9	0.12	32.7	2.58	0.44	< 0.01	0.01	0.01	0.04
7: 105022	42.2	0.97	34.1	2.38	0.37	< 0.01	< 0.01	0.04	0.10
8: 105023	46.1	2.69	31.2	3.11	0.46	< 0.01	< 0.01	0.13	0.15
9: 105024	55.8	4.64	24.3	2.81	0.31	< 0.01	0.03	0.22	0.16
10: 105025	46.3	5.32	34.7	3.67	1.81	< 0.01	0.02	0.26	0.14
11: 105026	8.07	0.98	86.2	0.04	0.04	0.02	0.03	0.05	0.13
12: 105027	51.7	8.84	20.3	4.71	3.95	0.76	0.05	0.50	0.25
13: 105028	52.9	0.43	43.3	1.52	0.16	< 0.01	0.05	0.03	0.12
14: 105029	46.2	1.04	49.3	1.15	0.21	< 0.01	0.03	0.07	0.12
15: 105030	54.8	3.00	35.8	2.51	0.20	< 0.01	0.02	0.21	0.17

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
1-BLK: Sud-Sample Pre	0.13	0.13	0.06	2.54	99.8	0.05	<0.05	0.5	0.7
2: 105017	0.09	0.01	0.01	2.80	100.2	0.02	<0.05	17.2	23.8
3: 105018	0.09	< 0.01	< 0.01	6.45	99.6	0.28	0.28	18.2	25.1
4: 105019	0.10	0.01	< 0.01	13.7	99.5	0.80	0.80	4.8	6.7
5: 105020	0.02	0.03	< 0.01	1.23	99.6	< 0.01	<0.05	0.7	1.0
6: 105021	0.10	< 0.01	< 0.01	17.6	99.5	0.19	0.19	0.9	1.3
7: 105022	0.14	0.01	< 0.01	17.8	98.2	3.70	3.70	0.9	1.3
8: 105023	0.16	0.02	< 0.01	15.3	99.4	1.60	1.50	1.4	2.0
9: 105024	0.13	0.02	< 0.01	10.2	98.5	1.83	1.60	0.7	1.0
10: 105025	0.08	0.02	0.01	5.95	98.3	0.21	0.21	13.2	18.3
11: 105026	1.04	< 0.01	0.01	3.20	99.8	0.01	<0.05	2.5	3.4
12: 105027	0.16	0.03	0.02	7.83	99.1	0.29	0.29	2.0	2.8
13: 105028	0.04	< 0.01	< 0.01	0.70	99.3	0.02	<0.05	26.1	36.1
14: 105029	0.04	0.02	< 0.01	1.31	99.5	0.08	< 0.05	32.6	45.1
15: 105030	0.04	0.02	0.01	2.87	99.6	0.33	0.32	20.1	27.8



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LR Report : CA02407-JAN12

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
16: 105031	52.5	4.15	34.6	3.00	0.39	0.12	0.10	0.29	0.29
17: 105032	55.7	1.73	35.9	2.64	0.22	< 0.01	0.09	0.12	0.16
18: 105033	56.4	0.08	36.2	2.93	0.72	< 0.01	0.05	< 0.01	0.04
19: 105034	57.6	0.07	35.6	2.94	0.68	< 0.01	0.05	< 0.01	0.03
20: 105035	63.7	0.43	30.4	2.53	0.58	< 0.01	0.06	0.03	0.05
21: 105036	24.7	6.66	48.3	2.73	3.06	1.09	0.69	0.60	0.09
22: 105037	69.9	0.07	25.5	1.85	0.20	< 0.01	0.04	< 0.01	0.03
23: 105038	67.5	0.09	27.9	1.83	0.42	< 0.01	0.06	< 0.01	0.05
24: 105039	66.0	0.08	27.5	2.22	0.34	< 0.01	0.05	< 0.01	0.03
25: 105040	56.7	4.90	27.9	3.63	0.56	0.31	0.63	0.29	0.22
26: 105041	60.5	0.10	33.5	2.38	0.32	0.01	0.07	0.01	0.05
27: 105042	60.8	0.11	33.0	2.35	0.36	< 0.01	0.07	< 0.01	0.04
28: 105043	63.0	0.70	28.2	2.45	0.64	< 0.01	0.05	0.04	0.04
29: 105044	61.6	0.10	31.4	2.63	0.43	< 0.01	0.04	0.06	0.04
30: 105045	49.3	0.09	44.3	2.38	0.38	< 0.01	0.06	< 0.01	0.06
31: 105046	48.2	0.09	44.6	2.54	0.53	< 0.01	0.06	0.01	0.09
32: 105047	96.1	0.67	0.64	0.52	0.76	0.15	0.09	0.02	< 0.01
33: 105048	47.4	0.06	46.0	1.65	0.37	< 0.01	0.03	< 0.01	0.08
34: 105049	45.3	3.01	43.3	3.67	0.93	0.07	0.12	0.16	0.12
35: 105050	46.1	0.04	50.9	1.37	0.47	< 0.01	0.03	< 0.01	0.09
36: 105051	47.3	1.62	43.7	2.51	1.05	0.09	0.10	0.14	0.14
37: 105052	48.0	0.97	42.4	1.82	0.48	0.02	0.11	0.10	0.13
38: 105053	41.3	1.39	46.0	2.57	1.35	< 0.01	0.09	0.12	0.19
39: 105054	46.6	0.06	51.5	0.82	0.25	< 0.01	0.02	< 0.01	0.12

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
16: 105031	0.11	0.02	0.01	4.31	99.9	0.16	0.16	15.4	21.3
17: 105032	0.09	0.01	< 0.01	2.84	99.5	0.07	0.07	18.8	26.0
18: 105033	0.09	< 0.01	< 0.01	2.41	98.9	0.03	<0.05	15.4	21.2
19: 105034	0.09	< 0.01	< 0.01	2.48	99.5	0.02	<0.05	14.8	20.4
20: 105035	0.08	< 0.01	< 0.01	1.80	99.7	0.05	0.05	12.0	16.5
21: 105036	0.11	0.03	0.03	9.16	97.2	15.3	15.3	8.5	11.8
22: 105037	0.06	< 0.01	< 0.01	1.77	99.4	0.05	< 0.05	9.4	13.0
23: 105038	0.06	0.01	< 0.01	1.70	99.6	0.11	0.10	11.4	15.8
24: 105039	0.07	< 0.01	< 0.01	2.37	98.7	0.22	0.21	10.1	14.0
25: 105040	0.10	0.02	0.01	4.11	99.4	0.16	0.16	10.1	13.9
26: 105041	0.09	< 0.01	< 0.01	2.14	99.2	0.11	0.11	14.6	20.1
27: 105042	0.09	< 0.01	< 0.01	2.38	99.2	0.10	0.10	13.8	19.1
28: 105043	0.08	0.01	< 0.01	3.95	99.2	0.04	<0.05	10.9	15.0
29: 105044	0.10	< 0.01	< 0.01	2.88	99.3	0.07	0.07	11.4	15.8
30: 105045	0.11	< 0.01	< 0.01	2.10	98.7	0.03	<0.05	23.0	31.7
31: 105046	0.08	< 0.01	< 0.01	3.05	99.2	0.15	0.15	23.3	32.2
32: 105047	0.01	0.02	0.01	0.72	99.7	< 0.01	<0.05	0.6	0.8
33: 105048	0.05	< 0.01	< 0.01	3.02	98.7	0.04	<0.05	28.4	39.2
34: 105049	0.10	0.02	0.01	3.51	100.3	< 0.01	<0.05	24.8	34.3
35: 105050	0.05	< 0.01	< 0.01	0.59	99.6	0.02	<0.05	34.2	47.2
36: 105051	0.05	0.01	< 0.01	2.86	99.6	0.03	<0.05	27.1	37.4
37: 105052	0.07	0.03	< 0.01	5.42	99.5	0.11	0.11	22.5	31.1
38: 105053	0.07	0.01	< 0.01	5.38	98.5	1.39	1.39	25.2	34.8
39: 105054	0.03	< 0.01	< 0.01	0.92	100.3	0.08	0.08	34.4	47.5

Online LIMS



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Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
40: 105055	49.1	0.12	46.3	1.64	0.56	< 0.01	0.06	< 0.01	0.09
41: 105056	47.9	0.44	39.6	2.36	0.50	0.01	0.07	0.12	0.04
42: 105057	48.1	0.19	48.0	0.89	0.31	< 0.01	0.08	< 0.01	0.07
43: 105058	40.6	0.26	51.6	1.19	0.57	< 0.01	0.08	0.01	0.06
44: 105059	44.1	0.40	40.9	1.91	0.33	< 0.01	0.05	0.01	0.04
45: 105060	46.7	0.88	43.0	1.61	0.33	< 0.01	0.02	0.06	0.13
46: 105061	47.9	0.07	46.9	1.46	0.33	< 0.01	0.04	< 0.01	0.09
47: 105062	48.6	0.07	45.8	1.46	0.27	< 0.01	0.04	0.01	0.08
48: 105063	45.1	0.07	49.6	1.10	0.47	< 0.01	0.01	< 0.01	0.09
49: 105064	43.2	2.71	44.5	2.43	1.23	0.26	0.12	0.19	0.30
50-BLK: Sud-Sample Pr	50.2	12.0	7.59	12.6	13.0	1.08	0.27	0.27	0.02
51: 105065	45.5	1.45	42.4	1.72	1.72	0.36	0.19	0.07	0.14
52: 105066	44.9	1.22	46.8	1.62	1.05	0.25	0.08	0.05	0.11
53: 105067	57.2	14.3	11.0	4.01	1.74	3.58	1.47	0.74	0.42
54: 105068	46.8	0.28	47.5	1.10	0.49	0.02	0.05	< 0.01	0.08
55: 105069	52.5	0.19	41.8	1.61	0.53	< 0.01	0.08	0.06	0.06
56: 105070	48.0	0.93	44.9	1.78	0.93	< 0.01	0.08	0.08	0.12
57: 105071	45.3	0.13	47.8	0.80	0.13	< 0.01	0.05	< 0.01	0.07
58: 105072	47.1	0.19	44.1	1.40	0.48	< 0.01	0.05	< 0.01	0.07
59: 105073	38.7	0.13	50.7	1.02	0.30	< 0.01	0.02	< 0.01	0.09
60: 105074	96.5	0.77	0.72	0.39	0.48	0.19	0.10	0.02	< 0.01
61: 105075	46.7	0.35	46.6	0.93	0.43	< 0.01	0.01	0.02	0.13
62: 105076	49.4	2.33	32.5	3.66	2.46	0.01	0.20	0.14	0.13
63: 105077	45.4	0.49	40.2	2.39	1.23	0.05	0.16	< 0.01	0.05

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
40: 105055	0.05	< 0.01	< 0.01	1.87	99.8	0.13	0.13	29.1	40.2
41: 105056	0.10	0.01	< 0.01	6.54	97.7	0.15	0.15	19.8	27.3
42: 105057	0.03	0.01	< 0.01	1.82	99.5	0.20	0.20	31.5	43.5
43: 105058	0.05	< 0.01	< 0.01	3.83	98.2	0.50	0.50	32.4	44.7
44: 105059	0.09	< 0.01	< 0.01	12.2	100.0	0.97	0.97	12.7	17.6
45: 105060	0.06	0.01	< 0.01	6.73	99.5	0.53	0.52	19.3	26.7
46: 105061	0.03	< 0.01	< 0.01	2.61	99.4	0.47	0.47	29.2	40.4
47: 105062	0.04	< 0.01	< 0.01	2.88	99.3	0.39	0.39	27.8	38.4
48: 105063	0.03	0.01	< 0.01	3.24	99.8	0.95	0.95	32.2	44.4
49: 105064	0.05	0.01	< 0.01	3.92	98.9	1.64	1.64	26.3	36.3
50-BLK: Sud-Sample Pr	0.15	0.11	0.04	2.40	99.7	0.03	<0.05	0.5	0.7
51: 105065	0.05	< 0.01	< 0.01	3.83	97.5	2.52	2.52	25.0	34.5
52: 105066	0.05	0.02	< 0.01	2.52	98.7	1.19	1.18	30.6	42.3
53: 105067	0.06	0.03	0.02	4.60	99.1	< 0.01	<0.05	1.3	1.8
54: 105068	0.04	< 0.01	< 0.01	2.05	98.5	0.40	0.40	31.3	43.2
55: 105069	0.03	0.01	< 0.01	2.73	99.5	0.46	0.46	24.3	33.6
56: 105070	0.03	0.02	< 0.01	1.42	98.3	0.62	0.62	28.5	39.4
57: 105071	0.02	< 0.01	< 0.01	3.98	98.3	4.22	4.22	28.2	39.0
58: 105072	0.05	< 0.01	< 0.01	5.30	98.7	1.25	1.25	24.8	34.3
59: 105073	0.04	< 0.01	< 0.01	6.57	97.7	0.75	0.73	27.8	38.4
60: 105074	< 0.01	0.03	< 0.01	0.43	99.6	< 0.01	<0.05	0.8	1.1
61: 105075	0.04	0.01	< 0.01	3.43	98.7	1.20	1.20	28.1	38.8
62: 105076	0.08	0.02	0.01	7.77	98.8	0.08	0.08	15.9	21.9
63: 105077	0.06	< 0.01	< 0.01	7.95	98.0	0.05	0.05	19.7	27.2

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
64: 105078	49.4	0.30	41.1	2.15	0.92	0.03	0.12	0.02	0.11
65: 105079	54.8	0.22	39.2	1.89	0.72	< 0.01	0.11	< 0.01	0.09
66: 105080	52.7	0.12	42.4	1.37	0.57	< 0.01	0.06	< 0.01	0.08
67: 105081	50.5	0.05	46.8	1.05	0.47	< 0.01	0.03	< 0.01	0.09
68: 105082	7.99	0.97	86.0	0.03	0.04	0.03	0.03	0.05	0.13
69: 105083	56.5	0.14	38.8	1.76	0.41	0.01	0.08	0.03	0.06
70: 105084	49.0	0.09	45.8	1.41	0.94	< 0.01	0.04	0.01	0.08
71: 105085	44.5	7.43	23.3	5.37	5.86	1.92	0.70	0.47	0.24
72: 105086	44.5	2.31	38.8	2.64	3.83	0.57	0.12	0.16	0.11
73: 105087	46.9	4.81	32.9	4.25	3.27	0.33	0.13	0.34	0.17
74: 105088	44.2	9.03	17.8	7.06	6.43	2.09	0.27	0.62	0.26
75: 105089	47.2	3.52	29.3	3.65	4.83	0.86	0.35	0.19	0.23
76: 105090	51.6	0.40	37.7	2.06	0.91	0.02	0.14	< 0.01	0.10
77-DUP: 105035	63.4	0.43	30.3	2.52	0.59	< 0.01	0.06	0.03	0.05
78-DUP: 105055	48.8	0.12	46.1	1.64	0.56	< 0.01	0.06	< 0.01	0.10
79-DUP: 105074	95.6	0.74	0.72	0.39	0.46	0.18	0.09	0.02	< 0.01
80-REP: 105065	44.7	1.40	43.4	1.63	1.59	0.30	0.17	0.07	0.13

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
64: 105078	0.06	0.01	< 0.01	4.34	98.6	0.05	<0.05	23.8	32.8
65: 105079	0.05	< 0.01	< 0.01	1.79	98.9	0.07	0.07	23.0	31.7
66: 105080	0.04	< 0.01	< 0.01	0.85	98.2	0.16	0.16	27.6	38.1
67: 105081	0.03	< 0.01	< 0.01	-0.02	99.1	0.02	<0.05	33.2	45.8
68: 105082	1.01	< 0.01	< 0.01	2.97	99.2	< 0.01	<0.05	2.6	3.6
69: 105083	0.03	0.01	< 0.01	1.07	98.9	0.02	<0.05	25.0	34.6
70: 105084	0.03	0.01	< 0.01	1.34	98.8	0.08	0.08	31.7	43.8
71: 105085	0.10	0.04	0.03	8.99	99.0	0.02	<0.05	10.5	14.5
72: 105086	0.06	0.02	< 0.01	4.46	97.7	0.20	0.20	25.9	35.8
73: 105087	0.07	0.04	0.02	5.13	98.4	0.20	0.20	17.4	24.1
74: 105088	0.15	0.06	0.03	10.9	98.9	0.02	<0.05	5.6	7.7
75: 105089	0.09	0.02	< 0.01	7.49	97.8	0.28	0.28	16.5	22.8
76: 105090	0.04	< 0.01	< 0.01	5.31	98.3	0.50	0.49	19.9	27.5
77-DUP: 105035	0.07	< 0.01	< 0.01	1.74	99.3	0.04	< 0.05	12.0	16.5
78-DUP: 105055	0.06	< 0.01	< 0.01	1.89	99.4	0.12	0.12	29.0	40.0
79-DUP: 105074	< 0.01	0.03	< 0.01	0.39	98.7	< 0.01	<0.05	0.8	1.1
80-REP: 105065	0.05	0.01	< 0.01	3.88	97.3	2.52	---	25.3	35.0

Control Quality Analysis - Not suitable for commercial exchange

April Rice  
Project Coordinator

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### Rogue Resources

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February 24, 2012

Date Rec. : 12 September 2011

LR Report : CA02510-SEP11

Client Ref : 144149 to 144217

# CERTIFICATE OF ANALYSIS

## Final Report - Revised

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
1-BLK: Sud-Sampl	50.3	12.7	7.66	12.3	12.6	1.05	0.40	0.23	0.02
2: 144149	60.2	0.80	28.9	1.94	0.39	0.05	0.26	0.02	0.14
3: 144150	66.7	0.63	23.5	1.46	0.36	0.04	0.20	0.02	0.19
4: 144151	50.9	5.33	29.3	3.09	0.29	0.04	0.13	0.23	0.13
5: 144152	62.7	2.07	22.9	1.57	0.28	0.05	0.21	0.07	0.15
6: 144153	51.4	1.44	31.5	2.22	0.49	0.05	0.27	0.05	0.16
7: 144154	54.9	7.91	15.1	6.85	4.11	0.05	0.71	0.48	0.21
8: 144155	51.1	1.23	31.1	2.29	0.85	0.06	0.13	0.04	0.12
9: 144156	46.3	1.47	33.7	2.52	0.93	0.06	0.14	0.05	0.12
10: 144157	41.9	3.25	36.6	2.71	0.70	0.08	0.19	0.10	0.25
11: 144158	49.8	1.68	32.0	2.37	0.47	0.04	0.09	0.07	0.08
12: 144159	37.5	1.56	40.2	2.90	0.70	0.04	0.08	0.05	0.13
13: 144160	61.1	1.34	22.8	2.34	0.90	0.02	< 0.01	0.08	0.13
14: 144161	52.5	0.70	28.2	2.55	0.32	0.01	< 0.01	0.03	0.06
15: 144162	56.4	0.26	26.3	2.13	0.63	< 0.01	0.03	< 0.01	0.17

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
1-BLK: Sud-Sampl	0.15	0.12	0.03	2.33	100.0	0.05	0.07	0.6	0.8
2: 144149	0.11	< 0.01	< 0.01	6.77	99.6	2.00	2.07	9.6	13.2
3: 144150	0.12	0.01	< 0.01	5.75	98.9	2.93	2.73	6.7	9.2
4: 144151	0.13	0.02	0.02	9.15	98.8	5.68	5.61	2.5	3.5
5: 144152	0.10	< 0.01	< 0.01	8.46	98.5	4.93	4.92	2.1	2.9
6: 144153	0.16	0.01	< 0.01	11.0	98.7	3.72	3.69	4.9	6.8
7: 144154	0.15	0.06	0.02	8.40	99.0	0.22	0.20	1.4	2.0
8: 144155	0.15	0.01	< 0.01	11.5	98.6	2.24	2.30	4.7	6.5
9: 144156	0.17	< 0.01	< 0.01	12.7	98.1	2.76	2.66	3.6	4.9
10: 144157	0.16	0.01	< 0.01	12.1	98.0	5.60	5.62	4.3	5.9
11: 144158	0.11	< 0.01	< 0.01	12.4	99.1	3.68	3.67	7.1	9.8
12: 144159	0.14	< 0.01	< 0.01	15.5	98.7	2.87	2.88	1.4	2.0
13: 144160	0.10	0.02	0.01	10.7	99.6	0.65	0.60	1.4	2.0
14: 144161	0.17	0.01	< 0.01	14.9	99.5	0.90	0.88	0.8	1.1
15: 144162	0.09	0.01	< 0.01	13.8	99.9	0.26	0.20	0.9	1.3



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LR Report : CA02510-SEP11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
16: 144163	95.9	1.11	0.86	0.34	0.63	0.27	0.14	0.04	< 0.01
17: 144164	51.9	0.64	29.0	2.40	0.71	< 0.01	0.03	0.03	0.16
18: 144165	59.3	0.62	24.9	2.09	0.65	0.05	0.12	0.02	0.12
19: 144166	55.9	1.91	29.1	2.56	0.60	0.14	0.31	0.12	0.09
20: 144167	56.5	14.2	7.83	3.27	3.84	4.38	1.71	0.63	0.29
21: 144168	55.9	1.52	28.6	2.48	0.86	0.10	0.23	0.09	0.15
22: 144169	59.5	1.02	26.6	2.36	0.48	0.10	0.22	0.06	0.08
23: 144170	---	---	---	---	---	---	---	---	---
24: 144171	64.2	1.21	24.6	1.91	0.73	0.13	0.33	0.04	0.13
25: 144172	71.0	0.48	18.2	1.40	0.34	0.01	0.02	< 0.01	0.04
26: 144173	44.0	3.85	34.0	2.40	0.30	0.07	0.16	0.14	0.10
27: 144174	49.1	1.71	30.1	2.58	0.30	0.02	0.11	0.07	0.04
28: 144175	56.6	1.73	27.3	2.18	0.42	0.04	0.11	0.07	0.06
29: 144176	55.9	0.91	26.8	2.36	1.27	0.02	0.06	0.03	0.12
30: 144177	64.0	1.08	22.3	1.79	0.57	0.03	0.10	0.04	0.08
31: 144178	61.7	1.39	23.5	2.09	0.82	0.02	0.08	0.07	0.08
32: 144179	59.4	0.80	24.4	2.22	0.57	0.02	0.14	0.03	0.05
33: 144180	50.7	0.52	30.1	2.40	0.58	0.02	0.03	0.02	0.06
34: 144181	40.3	0.97	35.1	2.94	1.00	0.25	0.03	0.05	0.07
35: 144182	38.5	0.40	37.9	2.66	0.73	0.02	0.04	0.02	0.04
36: 144183	48.6	0.38	32.0	2.24	0.44	< 0.01	0.03	0.02	0.03
37: 144184	95.2	1.48	1.06	0.45	0.60	0.35	0.19	0.05	0.01
38: 144185	51.9	0.12	29.8	2.18	0.44	0.02	0.02	< 0.01	0.02
39: 144186	43.0	0.98	34.7	2.56	0.48	< 0.01	0.02	0.04	0.05

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
16: 144163	< 0.01	0.04	< 0.01	0.65	100.0	0.04	< 0.05	0.9	1.2
17: 144164	0.10	0.01	< 0.01	14.8	99.7	0.44	0.38	0.9	1.2
18: 144165	0.10	0.02	< 0.01	11.7	99.7	0.44	0.39	1.8	2.5
19: 144166	0.13	0.01	< 0.01	7.95	98.8	2.54	2.54	5.9	8.2
20: 144167	0.08	0.02	0.02	5.84	98.6	0.26	0.23	1.0	1.4
21: 144168	0.11	< 0.01	< 0.01	9.37	99.4	1.14	1.11	6.3	8.7
22: 144169	0.14	0.01	< 0.01	9.27	99.9	0.99	0.82	5.1	7.0
23: 144170	---	---	---	---	---	---	---	---	---
24: 144171	0.09	< 0.01	< 0.01	6.12	99.5	1.24	1.18	6.5	9.0
25: 144172	0.06	0.01	< 0.01	8.45	100.1	5.78	0.99	1.7	2.4
26: 144173	0.15	0.01	< 0.01	13.2	98.3	5.74	5.73	2.8	3.9
27: 144174	0.19	0.02	< 0.01	14.9	99.2	2.52	2.41	1.1	1.5
28: 144175	0.11	0.01	< 0.01	9.93	98.6	2.86	2.61	5.1	7.0
29: 144176	0.09	0.02	< 0.01	11.9	99.4	0.27	0.21	3.0	4.1
30: 144177	0.06	0.02	< 0.01	9.89	99.9	0.40	0.29	1.8	2.5
31: 144178	0.10	0.02	< 0.01	9.18	99.0	2.16	2.03	2.8	3.8
32: 144179	0.11	0.02	< 0.01	12.5	100.3	0.32	0.29	1.2	1.7
33: 144180	0.10	< 0.01	< 0.01	15.4	99.9	0.30	0.25	1.2	1.6
34: 144181	0.13	< 0.01	< 0.01	18.9	99.7	0.07	< 0.05	0.8	1.1
35: 144182	0.14	< 0.01	< 0.01	19.3	99.8	0.16	0.14	1.2	1.6
36: 144183	0.14	0.01	< 0.01	15.8	99.8	0.22	0.17	1.4	2.0
37: 144184	< 0.01	0.02	< 0.01	0.83	100.2	0.02	< 0.05	0.9	1.3
38: 144185	0.14	0.02	< 0.01	15.6	100.3	0.05	< 0.05	0.9	1.3
39: 144186	0.15	< 0.01	< 0.01	17.5	99.5	0.35	0.31	0.9	1.3



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LR Report : CA02510-SEP11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
40: 144187	38.4	0.07	37.6	2.95	0.60	< 0.01	0.01	< 0.01	0.02
41: 144188	50.9	1.04	31.4	2.33	0.80	< 0.01	0.02	0.04	0.19
42: 144189	44.3	0.16	33.9	2.69	0.56	< 0.01	0.03	0.01	0.04
43: 144190	46.3	3.28	29.0	3.18	2.02	0.67	0.45	0.15	0.11
44: 144191	43.3	0.80	35.4	2.84	1.14	0.03	0.10	0.04	0.05
45: 144192	---	---	---	---	---	---	---	---	---
46: 144193	55.9	0.18	31.7	2.22	0.49	< 0.01	0.05	0.01	0.01
47: 144194	48.9	0.27	43.1	3.37	0.63	0.03	0.10	< 0.01	0.03
48: 144195	45.5	0.22	44.7	3.30	0.56	0.03	0.09	< 0.01	0.04
49: 144196	63.6	0.04	31.5	2.64	0.54	< 0.01	0.05	< 0.01	0.02
50-BLK: Sud-Samp	50.7	12.3	7.71	12.3	12.6	1.10	0.31	0.24	0.02
51: 144197	53.9	0.19	37.2	3.28	0.75	0.02	0.07	< 0.01	0.03
52: 144198	54.4	0.28	37.1	2.85	1.02	0.02	0.09	0.02	0.09
53: 144199	52.9	0.18	39.1	2.83	1.00	0.02	0.08	< 0.01	0.09
54: 144200	58.1	3.00	24.2	3.70	2.05	0.57	0.15	0.19	0.11
55: 144201	53.7	1.10	38.3	2.54	1.33	< 0.01	0.09	0.06	0.14
56: 144202	56.7	0.06	38.9	1.96	0.68	< 0.01	0.05	< 0.01	0.14
57: 144203	50.6	0.03	37.3	1.72	0.67	0.01	0.02	< 0.01	0.12
58: 144204	46.5	< 0.01	41.8	2.65	1.02	< 0.01	0.02	< 0.01	0.06
59: 144205	54.2	0.16	34.7	2.77	0.28	0.01	0.07	< 0.01	0.05
60: 144206	60.7	1.13	21.8	4.72	1.20	0.13	0.21	0.40	0.13
61: 144207	46.8	1.44	35.5	2.49	0.10	0.03	0.03	0.05	0.03
62: 144208	47.0	0.07	32.1	2.83	0.44	< 0.01	0.02	0.01	0.15
63: 144209	40.5	0.10	40.0	2.20	0.76	0.01	0.02	0.01	0.16

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
40: 144187	0.19	< 0.01	< 0.01	20.1	99.9	0.06	< 0.05	1.3	1.8
41: 144188	0.13	0.01	< 0.01	12.9	99.8	0.51	0.50	4.3	6.0
42: 144189	0.14	< 0.01	< 0.01	17.9	99.7	0.22	0.22	1.0	1.4
43: 144190	0.11	0.01	< 0.01	14.3	99.6	0.12	0.11	3.4	4.7
44: 144191	0.14	0.01	< 0.01	16.0	99.8	0.09	0.07	3.8	5.2
45: 144192	---	---	---	---	---	---	---	---	---
46: 144193	0.11	0.01	< 0.01	8.70	99.3	1.50	1.50	21.8	30.1
47: 144194	0.17	< 0.01	< 0.01	2.79	99.4	0.51	0.50	21.8	30.1
48: 144195	0.15	< 0.01	< 0.01	3.80	98.3	4.03	4.06	18.8	26.0
49: 144196	0.10	< 0.01	< 0.01	1.88	100.4	0.06	0.06	15.1	20.8
50-BLK: Sud-Samp	0.14	0.11	0.04	2.52	100.0	0.07	< 0.05	0.6	0.8
51: 144197	0.13	< 0.01	< 0.01	3.49	99.1	2.51	2.48	15.6	21.6
52: 144198	0.09	< 0.01	< 0.01	3.54	99.5	0.07	0.07	17.7	24.4
53: 144199	0.09	0.01	< 0.01	3.45	99.8	0.06	0.06	19.4	26.8
54: 144200	0.15	0.02	< 0.01	5.43	97.7	2.70	2.70	7.0	9.7
55: 144201	0.07	< 0.01	< 0.01	2.05	99.4	0.39	0.36	19.8	27.3
56: 144202	0.04	< 0.01	< 0.01	1.30	99.8	0.13	0.09	20.5	28.3
57: 144203	0.03	0.02	< 0.01	9.80	100.2	0.05	< 0.05	5.6	7.7
58: 144204	0.05	< 0.01	< 0.01	7.90	100.0	0.09	0.08	15.7	21.7
59: 144205	0.12	< 0.01	< 0.01	6.33	98.7	2.96	2.93	13.8	19.0
60: 144206	0.10	0.02	0.01	7.59	98.2	4.25	4.08	4.2	5.8
61: 144207	0.16	< 0.01	< 0.01	12.7	99.4	9.81	9.47	5.4	7.4
62: 144208	0.13	< 0.01	< 0.01	17.5	100.3	0.03	< 0.05	0.7	1.0
63: 144209	0.05	< 0.01	< 0.01	15.8	99.6	0.18	0.18	7.1	9.8

OnLine LIMS

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
64: 144210	44.3	0.03	41.0	1.96	0.61	< 0.01	0.02	< 0.01	0.09
65: 144211	55.3	0.45	29.3	2.60	0.88	0.04	0.15	0.04	0.11
66: 144212	48.0	1.03	43.3	1.84	1.77	0.06	0.02	0.07	0.10
67: 144213	43.9	0.23	49.0	1.78	0.60	0.02	0.02	0.07	0.07
68: 144214	41.9	2.34	43.1	3.02	1.64	0.70	0.04	0.22	0.12
69: 144215	46.6	2.09	41.7	2.45	1.76	0.72	0.05	0.12	0.12
70: 144216	47.2	10.3	17.0	5.63	6.52	0.91	0.74	0.58	0.18
71: 144217	48.2	11.1	15.5	5.77	6.36	1.02	0.89	0.63	0.19
72-DUP: 144167	56.8	14.2	7.87	3.25	3.86	4.41	1.70	0.64	0.29
73-DUP: 144187	38.4	0.07	37.5	2.98	0.59	0.02	< 0.01	0.01	0.02
74-REP: 144197	53.0	0.19	38.0	3.33	0.75	0.01	0.07	0.01	0.03
75-DUP: 144206	60.9	1.09	22.0	4.69	1.20	0.12	0.21	0.40	0.14

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
64: 144210	0.04	< 0.01	< 0.01	11.7	99.8	0.16	0.13	13.2	18.2
65: 144211	0.08	< 0.01	< 0.01	10.5	99.5	0.66	0.65	6.9	9.5
66: 144212	0.05	< 0.01	< 0.01	3.06	99.2	0.22	0.22	25.8	35.7
67: 144213	0.05	0.01	< 0.01	3.57	99.4	0.17	0.15	29.1	40.2
68: 144214	0.08	0.03	< 0.01	6.20	99.4	0.14	0.12	22.6	31.2
69: 144215	0.05	0.02	< 0.01	3.85	99.5	0.08	0.09	25.2	34.8
70: 144216	0.16	0.05	0.03	9.39	98.7	0.49	0.47	4.0	5.5
71: 144217	0.17	0.05	0.04	9.27	99.2	0.42	0.39	3.0	4.2
72-DUP: 144167	0.08	0.02	0.02	5.76	98.9	0.25	0.21	1.0	1.4
73-DUP: 144187	0.19	< 0.01	< 0.01	20.1	99.9	0.07	< 0.05	1.3	1.8
74-REP: 144197	0.14	< 0.01	< 0.01	3.45	99.0	2.47	2.34	16.4	22.7
75-DUP: 144206	0.10	0.02	0.01	7.53	98.5	4.12	4.08	4.2	5.8

Control Quality Analysis - Not suitable for commercial exchange

This report supersedes the certificate CA02510-SEP11 issued 05-Oct-11 reissued to include sample 144154.




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### Rogue Resources

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February 10, 2012

Date Rec. : 12 January 2012

LR Report : CA02567-JAN12

Client Ref : 144062-144072,144074-144143,144145-144148 Mag portion

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
1-BLK: Sud-Sample	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
2: 144062	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
3: 144063	14.2	0.13	86.8	1.08	0.28	0.04	0.02	0.02	0.03	0.05	< 0.01	< 0.01	-2.32	100.4
4: 144064	15.5	0.39	83.0	1.67	0.63	0.04	0.03	0.03	0.05	0.08	0.02	< 0.01	-1.12	100.3
5: 144065	28.8	0.21	69.8	1.70	0.63	0.04	0.04	0.02	0.07	0.04	< 0.01	< 0.01	-0.66	100.6
6: 144066	10.0	0.62	83.9	1.00	0.21	0.06	0.03	0.10	0.03	0.12	0.02	< 0.01	2.15	98.3
7: 144067	17.2	0.99	81.5	1.17	0.73	0.05	0.07	0.06	0.05	0.05	0.02	0.02	-1.24	100.6
8: 144068	15.5	1.78	80.9	1.71	0.91	0.22	0.07	0.10	0.08	0.06	0.03	< 0.01	-0.86	100.5
9: 144069	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
10: 144070	13.0	0.20	85.8	1.29	0.67	0.04	0.03	0.03	0.08	0.05	< 0.01	< 0.01	-1.77	99.4
11: 144071	29.8	1.18	64.7	2.29	1.01	0.05	0.08	0.08	0.11	0.05	0.02	< 0.01	0.35	99.7
12: 144072	27.6	1.65	65.8	2.29	1.48	0.11	0.12	0.10	0.12	0.06	< 0.01	< 0.01	0.33	99.7
13: 144074	23.1	2.67	68.6	2.84	1.85	0.16	0.10	0.14	0.11	0.05	0.02	< 0.01	0.29	100.0
14: 144075	18.7	0.18	81.6	0.94	0.44	0.04	0.04	0.02	0.07	0.03	0.02	< 0.01	-1.83	100.2
15: 144076	16.4	1.53	77.6	1.51	0.53	0.09	0.12	0.11	0.07	0.07	0.17	0.01	0.22	98.3
16: 144077	16.5	1.32	77.7	1.52	0.61	0.09	0.11	0.08	0.08	0.07	0.15	0.01	0.40	98.7
17: 144078	21.4	0.39	75.4	1.43	0.63	0.03	0.06	0.03	0.09	0.04	0.02	< 0.01	-0.94	98.6
18: 144079	16.7	0.23	81.3	1.18	0.72	0.04	0.05	0.02	0.07	0.05	0.03	< 0.01	-1.48	98.9
19: 144080	21.3	0.44	77.1	1.39	0.76	0.05	0.07	0.02	0.10	0.03	0.01	< 0.01	-1.46	99.8
20: 144081	16.7	0.29	82.8	1.02	0.59	0.05	0.08	0.02	0.07	0.04	0.01	< 0.01	-1.87	99.8
21: 144082	20.8	0.10	78.5	1.21	0.58	0.06	0.04	< 0.01	0.08	0.03	< 0.01	< 0.01	-1.75	99.7
22: 144083	18.5	0.19	81.6	1.00	0.44	0.05	0.06	0.02	0.07	0.03	< 0.01	< 0.01	-1.89	100.0
23: 144084	25.5	1.14	70.0	1.54	0.93	0.10	0.14	0.06	0.10	0.06	0.04	< 0.01	-0.51	99.1
24: 144085	14.5	0.37	85.1	1.03	0.43	0.05	0.07	0.03	0.07	0.04	0.02	< 0.01	-1.83	99.9
25: 144086	12.0	0.35	83.7	0.97	0.19	0.05	0.08	0.03	0.03	0.05	0.10	< 0.01	2.61	100.2
26: 144087	16.6	0.08	84.0	0.81	0.33	0.05	0.04	0.01	0.07	0.03	< 0.01	< 0.01	-2.14	99.9
27: 144088	21.4	0.06	78.0	1.11	0.48	0.05	0.03	< 0.01	0.08	0.02	< 0.01	< 0.01	-1.67	99.6
28: 144089	17.8	0.05	83.6	0.95	0.49	0.04	0.03	< 0.01	0.07	0.02	< 0.01	< 0.01	-1.82	101.3
29: 144090	22.9	0.07	76.6	1.51	0.53	0.04	0.05	< 0.01	0.07	0.03	< 0.01	< 0.01	-1.19	100.6

Online LIMS



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA02567-JAN12

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
30: 144091	20.2	0.08	79.1	1.42	0.50	0.06	0.04	< 0.01	0.06	0.03	< 0.01	< 0.01	-1.15	100.3
31: 144092	20.9	1.80	74.4	1.36	1.18	0.36	0.27	0.08	0.11	0.03	< 0.01	< 0.01	-1.00	99.6
32: 144093	18.8	0.46	80.6	1.14	0.53	0.06	0.04	0.03	0.08	0.02	< 0.01	< 0.01	-1.38	100.4
33: 144094	14.8	0.11	84.0	0.76	0.27	0.03	0.05	0.02	0.05	0.04	0.03	< 0.01	0.64	100.8
34: 144095	16.3	0.08	85.2	0.92	0.37	0.05	0.03	< 0.01	0.07	0.03	< 0.01	< 0.01	-1.89	101.1
35: 144096	18.8	0.10	81.0	1.03	0.32	0.05	0.05	0.01	0.06	0.03	< 0.01	< 0.01	-1.57	99.9
36: 144097	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
37: 144098	13.9	0.08	85.2	0.98	0.31	0.04	0.03	< 0.01	0.05	0.04	< 0.01	< 0.01	-1.34	99.3
38: 144099	7.10	0.79	82.4	0.67	0.56	0.10	0.06	0.04	0.05	0.03	0.04	< 0.01	8.26	100.1
39: 144100	12.9	0.04	88.1	0.88	0.23	0.03	0.02	< 0.01	0.04	0.03	< 0.01	< 0.01	-2.27	100.0
40: 144101	11.6	0.01	89.6	0.75	0.14	0.03	< 0.01	< 0.01	0.04	0.02	< 0.01	< 0.01	-2.40	99.8
41: 144102	5.96	0.19	85.0	0.50	0.12	0.05	0.03	0.02	0.02	0.01	0.05	< 0.01	8.65	100.5
42: 144103	14.6	0.10	84.4	1.25	0.43	0.04	0.05	< 0.01	0.04	0.03	0.02	< 0.01	-1.11	99.8
43: 144104	17.7	0.08	81.6	1.19	0.37	0.05	0.05	0.02	0.05	0.03	0.01	< 0.01	-1.36	99.8
44: 144105	9.97	0.56	87.2	0.78	0.19	0.06	0.06	0.04	0.03	0.03	0.12	0.02	1.30	100.4
45: 144106	7.92	1.02	78.8	0.95	0.48	0.15	0.06	0.05	0.04	0.03	0.07	< 0.01	10.9	100.5
46: 144107	13.2	0.04	86.3	1.44	0.36	0.04	0.01	0.01	0.05	0.07	0.02	< 0.01	-1.21	100.4
47: 144109	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
48: 144110	14.0	0.08	85.1	1.37	0.39	0.11	0.02	0.03	0.02	0.07	0.01	< 0.01	-1.23	100.0
49: 144111	11.7	0.04	87.0	1.42	0.50	0.04	0.02	0.01	0.04	0.04	0.02	< 0.01	-0.83	100.0
50-BLK: Sud-Sampl	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
51: 144112	12.6	0.07	84.9	1.50	0.53	0.04	0.03	< 0.01	0.04	0.04	0.02	< 0.01	-0.94	98.8
52: 144113	11.3	0.69	84.3	1.56	0.40	0.07	0.04	0.04	0.03	0.08	0.10	< 0.01	1.42	100.0
53: 144114	10.9	0.66	82.4	1.62	0.73	0.05	0.05	0.05	0.03	0.12	0.05	< 0.01	3.31	99.9
54: 144115	12.1	0.25	86.7	1.33	0.45	0.06	0.03	0.02	0.03	0.05	0.06	< 0.01	-1.22	99.8
55: 144116	16.6	0.88	78.3	2.15	1.17	0.05	0.08	0.05	0.06	0.06	0.02	< 0.01	-0.18	99.3
56: 144117	10.3	0.07	91.1	0.74	0.23	0.04	0.02	< 0.01	0.05	0.02	< 0.01	< 0.01	-2.29	100.3
57: 144118	8.57	0.05	93.4	0.65	0.15	0.02	0.02	< 0.01	0.03	0.02	< 0.01	< 0.01	-2.62	100.3
58: 144119	12.7	0.21	87.1	0.96	0.47	0.04	0.03	< 0.01	0.05	0.02	< 0.01	< 0.01	-1.78	99.9
59: 144120	10.8	0.35	87.5	1.35	0.33	0.04	0.02	0.03	0.03	0.06	0.10	< 0.01	-1.02	99.6
60: 144121	14.0	0.08	84.8	1.48	0.55	0.04	0.02	0.02	0.03	0.04	0.03	< 0.01	-0.68	100.3
61: 144122	16.1	0.05	82.3	2.03	0.53	0.03	0.03	< 0.01	0.04	0.04	< 0.01	< 0.01	-0.78	100.4
62: 144123	15.6	0.22	82.1	1.48	0.43	0.04	0.04	0.08	0.05	0.03	0.03	< 0.01	-0.75	99.5
63: 144124	8.57	0.10	90.5	0.70	0.28	0.04	0.03	0.04	0.04	0.02	0.04	< 0.01	-0.69	99.7
64: 144125	6.79	0.05	94.5	0.52	0.17	0.03	0.01	< 0.01	0.05	0.02	0.04	< 0.01	-1.44	100.7
65: 144126	8.94	0.07	91.8	0.74	0.21	0.04	0.03	0.01	0.05	0.02	0.01	< 0.01	-1.60	100.3
66: 144127	7.24	0.09	92.6	0.85	0.30	0.05	0.03	0.02	0.05	0.01	0.03	< 0.01	-0.83	100.4
67: 144128	7.95	0.09	91.9	0.77	0.28	0.05	0.02	0.01	0.05	0.01	0.03	< 0.01	-0.88	100.3
68: 144129	4.85	0.10	93.4	0.75	0.27	0.06	0.03	0.02	0.04	0.02	0.04	< 0.01	-0.14	99.5
69: 144130	10.5	0.48	84.9	1.19	0.45	0.06	0.09	0.10	0.05	0.04	0.04	< 0.01	0.87	98.7
70: 144131	12.8	0.39	82.8	1.00	0.87	0.05	0.06	0.02	0.05	0.03	0.02	< 0.01	0.13	98.2
71: 144132	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	Error!	---nss
72: 144133	15.3	0.15	82.9	1.28	0.39	0.05	0.07	0.04	0.04	0.05	0.04	< 0.01	-0.52	99.9
73: 144134	7.47	0.10	93.2	0.46	0.19	0.04	0.03	0.02	0.03	0.01	0.03	< 0.01	-1.59	100.0
74: 144135	7.00	0.07	94.5	0.43	0.13	0.04	0.02	< 0.01	0.04	0.02	0.03	< 0.01	-1.99	100.3
75: 144136	4.36	0.10	96.8	0.27	0.13	0.04	0.02	0.02	0.03	0.02	0.04	< 0.01	-1.80	100.1
76: 144137	8.75	0.05	91.6	0.35	0.14	0.04	0.02	< 0.01	0.05	0.02	0.03	< 0.01	-1.28	99.8
77: 144138	10.1	0.05	91.4	0.42	0.15	0.04	< 0.01	< 0.01	0.04	0.02	0.16	< 0.01	-1.76	100.6
78: 144139	6.41	0.03	95.6	0.27	0.10	0.05	< 0.01	< 0.01	0.04	< 0.01	0.02	< 0.01	-2.41	100.2
79: 144140	6.67	0.03	95.7	0.31	0.09	0.03	< 0.01	< 0.01	0.03	< 0.01	0.03	< 0.01	-2.35	100.6
80: 144141	7.84	0.02	93.9	0.40	0.11	0.04	0.01	< 0.01	0.04	0.02	0.01	< 0.01	-2.14	100.2

Online LIMS



**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

**LR Report : CA02567-JAN12**

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
81: 144142	8.53	0.04	93.8	0.36	0.09	0.03	< 0.01	0.01	0.03	0.02	0.03	< 0.01	-2.68	100.3
82: 144143	8.19	0.02	94.1	0.36	0.10	0.03	0.01	0.01	0.03	< 0.01	0.03	< 0.01	-2.62	100.3
83: 144145	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	Error!	---nss
84: 144146	15.8	1.25	76.9	1.32	0.60	0.08	0.13	0.13	0.06	0.05	0.06	0.01	1.96	98.4
85: 144147	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
86: 144148	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
87-REP: 144112	13.8	0.08	83.5	1.59	0.57	0.04	0.03	< 0.01	0.05	0.04	0.01	< 0.01	-0.70	99.0
88-DUP: 144081	16.5	0.29	82.6	1.00	0.57	0.05	0.08	0.02	0.08	0.04	0.02	< 0.01	-1.85	99.4
89-DUP: 144101	11.5	< 0.01	90.7	0.73	0.14	0.05	0.01	< 0.01	0.04	0.02	< 0.01	< 0.01	-2.40	100.7
90-DUP: 144121	14.2	0.05	84.8	1.47	0.54	0.04	0.02	0.01	0.03	0.04	0.04	< 0.01	-0.63	100.6
91-DUP: 144141	7.81	0.04	94.1	0.40	0.10	0.03	0.01	< 0.01	0.04	0.02	< 0.01	< 0.01	-2.22	100.3

Control Quality Analysis - Not suitable for commercial exchange




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April Rice  
Project Coordinator

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SGS Canada Inc.

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Lakefield - Ontario - KOL 2H0

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Rogue Resources

Attn : Freeman Smith

Suite 202, 200 Granville Square, Vancouver  
, V6C 1S4

Phone: 604-629-1808, Fax:604-229-0481

October 24, 2011

Date Rec. : 13 September 2011

LR Report : CA02595-SEP11

Client Ref : 144218 TO 144266

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
1-BLK: Sud-Sample Prep BLK	49.3	12.9	8.17	12.5	12.6	1.01	0.19	0.25	0.02
2: 144218	64.0	0.78	23.2	1.09	0.25	0.02	0.01	0.04	0.09
3: 144219	50.5	0.39	42.0	0.42	0.09	0.15	< 0.01	< 0.01	0.06
4: 144220	51.8	0.52	42.3	0.38	0.09	0.02	< 0.01	< 0.01	0.07
5: 144221	44.0	0.18	50.4	0.06	0.02	0.01	< 0.01	< 0.01	0.24
6: 144222	53.3	0.39	37.2	1.01	0.09	< 0.01	< 0.01	< 0.01	0.02
7: 144223	47.7	0.27	47.3	0.20	0.03	< 0.01	< 0.01	< 0.01	0.03
8: 144224	49.8	0.14	32.5	1.79	0.27	< 0.01	0.01	< 0.01	0.06
9: 144225	55.5	0.33	30.5	1.53	0.21	< 0.01	0.01	0.02	0.05
10: 144226	44.6	0.31	35.8	1.89	0.51	0.01	0.01	0.03	0.11
11: 144227	42.6	0.15	40.7	1.44	0.35	< 0.01	< 0.01	< 0.01	0.08
12: 144228	46.6	0.53	46.2	1.08	0.22	< 0.01	0.06	0.03	0.10
13: 144229	---	---	---	---	---	---	---	---	---
14: 144230	51.1	0.19	31.7	1.69	0.28	0.01	< 0.01	0.02	0.06
15: 144231	45.2	0.12	39.3	1.48	0.32	< 0.01	0.01	< 0.01	0.09

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
1-BLK: Sud-Sample Prep BLK	0.16	0.12	0.04	2.87	100.2	0.02	< 0.05	10.0	13.8
2: 144218	0.05	0.07	< 0.01	10.3	99.9	1.02	0.97	0.9	1.3
3: 144219	0.02	0.01	< 0.01	6.42	100.1	0.48	0.52	8.0	11.0
4: 144220	< 0.01	< 0.01	< 0.01	5.09	100.3	0.08	0.08	9.5	13.1
5: 144221	< 0.01	< 0.01	< 0.01	5.22	100.1	0.38	0.39	7.0	9.7
6: 144222	0.05	0.01	< 0.01	8.15	100.2	0.42	0.42	9.3	12.8
7: 144223	0.01	< 0.01	< 0.01	4.44	100.1	0.23	0.24	15.3	21.1
8: 144224	0.09	0.01	< 0.01	15.3	99.9	0.61	0.60	1.4	2.0
9: 144225	0.07	< 0.01	< 0.01	11.7	100.0	0.77	0.74	4.0	5.5
10: 144226	0.06	0.01	< 0.01	17.0	100.2	0.32	0.32	2.5	3.5
11: 144227	0.05	< 0.01	< 0.01	14.8	100.2	0.24	0.25	8.0	11.1
12: 144228	0.03	< 0.01	< 0.01	5.05	99.9	0.06	0.06	24.7	34.1
13: 144229	---	---	---	---	---	---	---	---	---
14: 144230	0.08	0.02	< 0.01	14.3	99.5	1.65	1.62	3.6	5.0
15: 144231	0.06	< 0.01	< 0.01	12.7	99.3	2.03	1.92	10.5	14.5



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA02595-SEP11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
16: 144232	46.6	0.04	34.9	2.17	0.42	< 0.01	< 0.01	< 0.01	0.10
17: 144233	39.2	0.34	39.5	1.29	0.17	< 0.01	< 0.01	0.02	0.04
18: 144234	44.6	0.47	36.6	1.57	0.19	0.01	0.01	0.02	0.05
19: 144235	52.4	0.15	31.5	2.13	0.24	0.01	< 0.01	0.01	0.09
20: 144236	69.2	0.52	20.0	1.08	0.15	< 0.01	< 0.01	0.02	0.07
21: 144237	75.4	0.19	17.6	0.62	0.15	< 0.01	< 0.01	< 0.01	0.09
22: 144238	55.8	0.10	39.7	0.02	< 0.01	< 0.01	< 0.01	< 0.01	0.14
23: 144239	96.5	1.11	0.83	0.45	0.49	0.28	0.14	0.04	< 0.01
24: 144240	51.9	0.10	30.1	2.28	0.41	< 0.01	< 0.01	0.01	0.08
25: 144241	43.1	0.12	38.1	2.31	0.43	< 0.01	< 0.01	< 0.01	0.11
26: 144242	45.0	0.10	41.4	1.85	0.44	< 0.01	< 0.01	< 0.01	0.11
27: 144243	40.6	0.39	37.2	3.06	0.41	< 0.01	< 0.01	0.03	0.06
28: 144244	43.6	0.28	48.4	1.43	0.18	< 0.01	0.01	0.01	0.07
29: 144245	48.6	0.08	46.8	1.06	0.11	< 0.01	< 0.01	< 0.01	0.06
30: 144246	46.8	0.06	48.7	1.38	0.35	< 0.01	0.01	< 0.01	0.07
31: 144247	95.6	1.54	1.12	0.52	0.73	0.38	0.19	0.05	0.01
32: 144248	40.8	0.09	56.2	0.97	0.28	< 0.01	0.02	< 0.01	0.06
33: 144249	44.5	0.04	52.0	1.11	0.12	0.01	< 0.01	< 0.01	0.06
34: 144250	47.3	0.07	43.6	1.18	0.13	< 0.01	0.02	< 0.01	0.03
35: 144251	43.4	0.12	45.8	1.38	0.21	0.02	0.01	< 0.01	0.06
36: 144252	44.1	0.11	48.1	1.23	0.09	< 0.01	< 0.01	< 0.01	0.02
37: 144253	47.5	0.13	42.8	1.08	0.18	< 0.01	< 0.01	0.01	0.05
38: 144254	45.9	2.10	35.5	2.15	0.22	< 0.01	0.01	0.14	0.03
39: 144255	45.8	0.22	38.5	1.82	0.28	< 0.01	< 0.01	< 0.01	0.04

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
16: 144232	0.08	< 0.01	< 0.01	16.2	100.6	0.20	0.20	3.4	4.7
17: 144233	0.07	0.01	< 0.01	18.1	98.8	14.5	13.8	3.1	4.3
18: 144234	0.14	< 0.01	< 0.01	15.6	99.3	7.76	7.63	2.5	3.5
19: 144235	0.22	< 0.01	< 0.01	12.9	99.8	1.28	1.19	4.1	5.7
20: 144236	0.19	< 0.01	< 0.01	8.77	100.0	4.71	4.59	1.1	1.5
21: 144237	0.06	< 0.01	< 0.01	5.95	100.1	1.07	1.07	1.4	2.0
22: 144238	< 0.01	< 0.01	< 0.01	4.34	100.1	0.02	< 0.05	2.7	3.7
23: 144239	< 0.01	0.03	< 0.01	0.60	100.5	0.02	< 0.05	0.7	1.0
24: 144240	0.19	< 0.01	< 0.01	15.0	100.1	0.71	0.69	1.9	2.6
25: 144241	0.10	< 0.01	< 0.01	15.9	100.1	0.08	0.06	6.0	8.3
26: 144242	0.05	0.01	< 0.01	10.9	99.9	0.06	0.05	14.5	20.0
27: 144243	0.13	< 0.01	< 0.01	19.1	100.9	0.72	0.71	1.8	2.5
28: 144244	0.04	< 0.01	< 0.01	5.32	99.4	0.06	0.05	25.3	35.0
29: 144245	0.02	< 0.01	< 0.01	3.08	99.9	0.16	0.16	27.8	38.4
30: 144246	0.02	< 0.01	< 0.01	2.47	99.9	0.03	< 0.05	30.4	42.0
31: 144247	< 0.01	0.04	< 0.01	0.83	101.0	0.01	< 0.05	0.9	1.2
32: 144248	0.02	< 0.01	< 0.01	1.34	99.7	0.07	0.06	36.3	50.2
33: 144249	0.02	0.01	< 0.01	2.32	100.1	0.05	< 0.05	32.2	44.5
34: 144250	0.03	< 0.01	< 0.01	7.51	100.0	0.15	0.11	19.7	27.2
35: 144251	0.02	< 0.01	< 0.01	8.80	99.9	0.04	< 0.05	15.0	20.7
36: 144252	0.03	0.01	< 0.01	6.37	100.0	0.09	< 0.05	23.0	31.8
37: 144253	0.02	0.02	< 0.01	8.16	99.9	0.22	0.16	17.4	24.0
38: 144254	0.08	0.02	< 0.01	14.1	100.3	0.11	0.08	2.4	3.3
39: 144255	0.05	0.01	< 0.01	13.5	100.3	0.10	0.08	7.1	9.8

Online LIMS

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
40: 144256	42.9	0.81	34.8	2.62	0.38	0.01	0.15	0.04	0.06
41: 144257	---	---	---	---	---	---	---	---	---
42: 144258	57.3	1.47	25.4	1.88	0.27	< 0.01	0.11	0.08	0.05
43: 144259	57.7	0.60	28.1	1.22	0.26	< 0.01	< 0.01	0.02	0.02
44: 144260	41.8	1.49	36.7	2.15	0.37	0.01	< 0.01	0.07	0.04
45: 144261	53.9	3.50	31.6	1.40	0.14	0.01	< 0.01	0.16	0.02
46: 144262	63.8	6.48	22.5	1.54	0.06	< 0.01	0.04	0.27	0.05
47: 144263	53.1	8.82	27.1	2.57	0.20	< 0.01	0.13	0.39	0.07
48: 144264	52.3	5.10	28.9	2.51	0.20	< 0.01	0.02	0.25	0.07
49: 144265	50.9	5.41	29.6	2.56	0.19	< 0.01	0.02	0.26	0.07
50-BLK: Sud-Sample Prep BLK	50.6	12.6	7.74	12.2	12.3	1.01	0.31	0.23	0.02
51: 144266	49.5	1.07	33.8	1.79	0.26	< 0.01	0.03	0.04	0.05
52-DUP: 144236	69.0	0.52	19.8	1.05	0.15	< 0.01	< 0.01	0.02	0.08
53-DUP: 144256	42.7	0.79	34.8	2.57	0.39	< 0.01	0.15	0.03	0.06
54-REP: 144266	50.0	1.12	33.8	1.84	0.25	0.02	0.03	0.05	0.06

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
40: 144256	0.11	< 0.01	< 0.01	18.1	100.0	0.83	0.71	1.6	2.2
41: 144257	---	---	---	---	---	---	---	---	---
42: 144258	0.12	0.02	< 0.01	12.9	99.6	0.90	0.78	0.9	1.2
43: 144259	0.08	< 0.01	< 0.01	12.1	100.1	0.16	0.12	0.9	1.2
44: 144260	0.12	< 0.01	< 0.01	17.1	99.9	0.10	0.07	1.0	1.4
45: 144261	0.03	0.01	< 0.01	9.53	100.3	0.22	0.17	0.9	1.2
46: 144262	0.05	0.02	< 0.01	5.11	99.9	0.50	0.40	0.8	1.1
47: 144263	0.12	0.01	0.02	7.90	100.4	0.30	0.24	0.7	1.0
48: 144264	0.11	0.01	< 0.01	10.8	100.4	0.46	0.43	0.7	1.0
49: 144265	0.11	< 0.01	< 0.01	11.0	100.1	0.49	0.43	0.7	1.0
50-BLK: Sud-Sample Prep BLK	0.14	0.12	0.03	3.00	100.3	0.04	< 0.05	0.6	0.9
51: 144266	0.05	0.02	< 0.01	12.8	99.4	0.49	0.43	3.0	4.1
52-DUP: 144236	0.18	0.02	< 0.01	8.77	99.5	4.56	4.35	1.1	1.5
53-DUP: 144256	0.10	0.01	< 0.01	18.2	99.7	0.82	0.71	1.6	2.2
54-REP: 144266	0.06	< 0.01	< 0.01	12.8	100.1	0.49	0.45	3.0	4.1

Control Quality Analysis - Not suitable for commercial exchange

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Project Coordinator

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December 19, 2011

Date Rec. : 10 November 2011

LR Report : CA02678-NOV11

Client Ref : 104769 to 104815

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
1-BLK: Sud-Sample P	52.9	13.1	7.16	10.8	11.3	1.65	0.29	0.44	0.02
2: 104769	48.4	0.12	49.7	1.71	0.40	< 0.01	< 0.01	< 0.01	0.07
3: 104770	47.3	0.11	49.2	2.16	0.30	< 0.01	0.01	0.01	0.07
4: 104771	45.5	0.22	45.8	1.89	0.91	< 0.01	< 0.01	0.01	0.07
5: 104772	8.14	1.00	87.7	0.01	0.04	0.02	0.03	0.05	0.13
6: 104773	48.1	0.27	45.9	1.87	0.81	0.01	0.05	0.01	0.11
7: 104774	48.1	0.23	41.5	2.50	0.95	0.01	0.06	0.01	0.10
8: 104775	61.5	16.2	12.4	2.01	0.16	0.46	2.89	0.66	0.09
9: 104776	52.2	0.23	42.0	2.04	1.06	< 0.01	0.11	< 0.01	0.15
10: 104777	51.4	0.26	41.0	2.03	1.10	0.02	0.12	< 0.01	0.16
11: 104778	50.2	0.70	41.6	2.18	1.44	0.03	0.23	0.03	0.13
12: 104779	52.8	4.30	31.2	3.00	2.87	0.02	0.19	0.22	0.30
13: 104780	50.9	0.13	43.0	2.00	1.16	< 0.01	0.06	< 0.01	0.13
14: 104781	51.0	0.72	44.1	2.26	1.12	< 0.01	0.09	0.03	0.15
15: 104782	52.7	0.52	40.8	2.34	1.66	< 0.01	0.10	0.02	0.14

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
1-BLK: Sud-Sample P	0.14	0.12	0.04	3.04	101.0	0.04	<0.05	0.7	1.0
2: 104769	0.03	< 0.01	< 0.01	-0.60	99.9	0.15	0.12	34.2	47.3
3: 104770	0.02	< 0.01	< 0.01	1.15	100.3	0.03	<0.05	27.7	38.3
4: 104771	0.03	< 0.01	< 0.01	5.28	99.7	0.48	0.46	25.3	35.0
5: 104772	1.03	< 0.01	< 0.01	3.10	101.3	< 0.01	<0.05	0.3	0.4
6: 104773	0.04	< 0.01	< 0.01	3.30	100.5	0.03	<0.05	28.1	38.8
7: 104774	0.08	< 0.01	< 0.01	6.19	99.8	0.20	0.17	20.0	27.6
8: 104775	0.08	0.02	0.02	4.72	101.2	0.98	0.95	1.1	1.5
9: 104776	0.06	< 0.01	< 0.01	3.36	101.2	0.16	0.11	17.5	24.2
10: 104777	0.06	< 0.01	< 0.01	3.77	99.9	0.26	0.20	17.2	23.8
11: 104778	0.09	< 0.01	< 0.01	4.46	101.1	0.35	0.31	17.4	24.0
12: 104779	0.07	< 0.01	< 0.01	5.87	100.8	0.10	0.06	11.4	15.8
13: 104780	0.05	< 0.01	< 0.01	2.74	100.2	0.06	< 0.05	21.2	29.3
14: 104781	0.04	< 0.01	< 0.01	1.94	101.5	0.16	0.13	20.3	28.1
15: 104782	0.04	< 0.01	< 0.01	2.47	100.9	0.24	0.22	19.2	26.5

OnLine LIMS



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LR Report : CA02678-NOV11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
16: 104783	51.7	0.15	43.8	1.70	1.08	< 0.01	0.08	< 0.01	0.16
17: 104784	45.9	0.10	49.2	1.59	1.05	< 0.01	0.06	< 0.01	0.14
18: 104785	87.0	1.22	1.02	2.87	3.80	0.22	0.15	0.05	< 0.01
19: 104786	50.1	0.17	44.2	1.85	1.22	< 0.01	0.08	< 0.01	0.13
20: 104787	47.2	0.26	42.4	1.83	1.37	0.03	0.09	< 0.01	0.12
21: 104788	45.7	0.27	44.2	1.92	1.36	0.03	0.10	< 0.01	0.17
22: 104789	46.3	0.90	42.5	2.03	1.17	0.06	0.16	0.04	0.12
23: 104790	65.3	1.13	23.3	1.93	0.73	0.05	0.19	0.05	0.09
24: 104791	63.0	0.94	24.8	2.15	0.97	0.07	0.17	0.03	0.16
25: 104792	41.0	0.17	50.4	1.96	1.88	0.02	0.07	< 0.01	0.15
26: 104793	45.8	0.18	47.0	1.93	1.76	0.01	0.08	0.01	0.13
27: 104794	48.8	0.73	43.6	2.05	1.30	0.11	0.27	0.03	0.14
28: 104795	48.0	0.48	39.1	2.92	1.15	0.04	0.15	0.03	0.05
29: 104796	54.3	0.14	37.7	3.55	1.59	< 0.01	0.07	< 0.01	0.14
30: 104797	56.9	0.29	34.7	3.19	0.66	0.02	0.12	0.01	0.08
31: 104798	53.3	0.39	34.0	2.67	1.12	0.04	0.22	0.01	0.05
32: 104799	24.9	6.70	50.8	2.69	2.98	1.11	0.66	0.59	0.09
33: 104800	47.7	0.20	45.8	2.75	1.31	0.02	0.19	< 0.01	0.09
34: 104801	48.7	0.19	47.2	2.19	1.02	< 0.01	0.11	< 0.01	0.09
35: 104802	44.9	0.07	49.8	2.01	1.39	< 0.01	0.06	< 0.01	0.09
36: 104803	45.1	0.07	46.5	1.80	2.25	< 0.01	0.03	< 0.01	0.08
37: 104804	43.2	0.08	49.5	2.01	1.91	< 0.01	0.05	< 0.01	0.08
38: 104805	48.1	0.09	46.3	1.78	1.44	< 0.01	0.05	< 0.01	0.09
39: 104806	48.9	0.11	44.0	2.49	2.29	< 0.01	0.06	< 0.01	0.07

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
16: 104783	0.04	< 0.01	< 0.01	1.69	100.4	0.08	< 0.05	24.6	34.0
17: 104784	0.04	< 0.01	< 0.01	2.74	100.8	0.08	< 0.05	27.1	37.4
18: 104785	0.02	0.02	< 0.01	4.86	101.3	< 0.01	< 0.05	1.0	1.4
19: 104786	0.05	< 0.01	< 0.01	3.09	100.9	0.18	0.14	22.1	30.5
20: 104787	0.04	< 0.01	< 0.01	6.99	100.3	0.18	0.05	20.6	28.4
21: 104788	0.04	< 0.01	< 0.01	7.08	100.8	0.08	< 0.05	20.5	28.3
22: 104789	0.05	< 0.01	< 0.01	7.29	100.7	0.22	0.21	16.6	22.9
23: 104790	0.11	< 0.01	< 0.01	8.35	101.2	0.53	0.49	4.0	5.6
24: 104791	0.10	0.01	< 0.01	7.86	100.3	0.46	0.46	6.5	9.0
25: 104792	0.05	< 0.01	< 0.01	4.75	100.4	0.02	< 0.05	27.0	37.3
26: 104793	0.03	< 0.01	< 0.01	4.32	101.3	0.02	< 0.05	24.5	33.8
27: 104794	0.06	< 0.01	< 0.01	3.45	100.6	0.33	0.22	21.0	29.0
28: 104795	0.24	< 0.01	< 0.01	7.66	99.8	3.23	3.13	10.8	14.9
29: 104796	0.14	< 0.01	< 0.01	2.85	100.5	< 0.01	< 0.05	12.9	17.8
30: 104797	0.24	< 0.01	< 0.01	5.12	101.3	2.10	2.03	8.9	12.3
31: 104798	0.21	< 0.01	< 0.01	8.55	100.5	3.60	3.60	7.8	10.7
32: 104799	0.11	0.04	0.03	8.90	99.6	---nss---	--nss	8.5	11.8
33: 104800	0.06	< 0.01	< 0.01	2.08	100.3	0.54	0.48	18.5	25.5
34: 104801	0.04	< 0.01	< 0.01	1.32	100.8	0.74	0.71	28.8	39.8
35: 104802	0.02	< 0.01	< 0.01	1.56	100.0	0.33	0.30	27.2	37.5
36: 104803	0.02	< 0.01	< 0.01	4.23	100.1	0.21	0.20	26.0	35.9
37: 104804	0.03	< 0.01	< 0.01	2.81	99.6	1.11	1.07	25.6	35.3
38: 104805	0.02	< 0.01	< 0.01	1.89	99.8	0.78	0.33	23.9	33.0
39: 104806	0.03	< 0.01	< 0.01	2.33	100.3	0.38	0.27	21.8	30.1

Online LIMS



Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
40: 104807	50.6	0.21	43.6	2.38	1.88	0.02	0.09	0.02	0.06
41: 104808	50.4	0.16	44.9	2.47	0.98	< 0.01	0.08	< 0.01	0.09
42: 104809	51.4	0.32	43.7	2.56	1.10	0.02	0.13	< 0.01	0.13
43: 104810	52.6	0.32	41.1	2.11	0.87	0.02	0.11	< 0.01	0.09
44: 104811	46.2	0.28	45.6	3.26	1.17	0.01	0.10	0.02	0.08
45: 104812	48.4	0.92	38.5	3.55	1.48	0.02	0.09	0.04	0.06
46: 104813	57.0	1.93	21.9	3.30	3.91	0.35	0.04	0.09	0.06
47: 104814	51.8	5.40	24.8	3.48	2.92	< 0.01	< 0.01	0.23	0.08
48: 104815	60.5	15.9	6.62	2.16	3.56	3.24	1.68	0.58	0.13
49-DUP: 104787	47.3	0.25	42.4	1.82	1.38	0.03	0.10	< 0.01	0.13
50-DUP: 104807	50.4	0.20	43.1	2.35	1.85	0.02	0.08	0.02	0.07

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
40: 104807	0.04	< 0.01	< 0.01	2.45	101.4	0.49	0.44	23.2	32.0
41: 104808	0.03	< 0.01	< 0.01	0.83	100.0	0.05	< 0.05	25.4	35.1
42: 104809	0.08	< 0.01	< 0.01	1.98	101.4	0.26	0.24	20.0	27.6
43: 104810	0.07	< 0.01	< 0.01	3.07	100.3	0.26	0.26	19.4	26.8
44: 104811	0.10	< 0.01	< 0.01	4.08	101.0	0.44	0.41	21.1	29.1
45: 104812	0.15	< 0.01	< 0.01	7.05	100.2	0.48	0.49	16.7	23.1
46: 104813	0.21	0.01	< 0.01	9.22	98.0	1.13	1.07	3.8	5.3
47: 104814	0.15	0.01	< 0.01	9.46	98.3	0.94	0.08	1.1	1.5
48: 104815	0.07	0.02	0.02	4.60	99.1	0.23	0.23	0.9	1.2
49-DUP: 104787	0.04	< 0.01	< 0.01	6.96	100.5	0.18	< 0.05	20.6	28.4
50-DUP: 104807	0.03	< 0.01	< 0.01	2.40	100.5	0.49	0.43	23.2	32.0




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Project Coordinator

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November 10, 2011

Date Rec. : 18 October 2011

LR Report : CA02843-OCT11

Client Ref : 144379 to 144447

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %
1-BLK: Sud-Sampl	49.4	12.7	7.71	12.2	12.8	1.07	0.22	0.24	0.01	0.16
2: 144379	45.2	0.08	43.9	1.58	0.61	< 0.01	0.05	< 0.01	0.09	0.05
3: 144380	45.0	0.05	48.9	1.42	0.42	< 0.01	0.04	< 0.01	0.11	0.04
4: 144381	49.9	0.13	42.3	1.51	0.33	< 0.01	0.06	< 0.01	0.09	0.08
5: 144382	40.1	0.06	49.4	1.72	0.77	< 0.01	0.04	< 0.01	0.09	0.04
6: 144383	57.4	0.37	26.4	1.75	0.49	0.01	0.03	0.02	0.06	0.11
7: 144384	46.1	0.16	37.6	1.44	0.46	< 0.01	0.05	0.01	0.10	0.06
8: 144385	38.5	< 0.01	44.3	2.08	2.59	< 0.01	0.01	< 0.01	0.09	0.06
9: 144386	42.5	0.12	37.0	2.33	0.93	0.02	0.05	< 0.01	0.08	0.12
10: 144387	39.9	0.15	38.2	2.49	1.00	0.01	0.05	< 0.01	0.09	0.14
11: 144388	95.1	1.45	0.99	0.40	0.60	0.39	0.19	0.04	0.01	< 0.01
12: 144389	44.8	0.55	33.6	2.45	0.29	0.02	0.05	0.02	0.05	0.22
13: 144390	48.2	0.21	32.0	2.38	0.42	0.01	0.04	0.01	0.09	0.19
14: 144391	40.0	0.10	40.0	2.04	0.92	< 0.01	0.05	0.01	0.12	0.09
15: 144392	42.0	< 0.01	39.8	1.85	0.77	< 0.01	0.01	< 0.01	0.14	0.07

Sample ID	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %	Feed g	Mag g	Non Mag g
1-BLK: Sud-Sampl	0.11	0.03	3.35	100.0	0.07	0.05	0.6	0.8	20.04	< .01	20.04
2: 144379	< 0.01	< 0.01	8.49	100.1	0.14	0.09	18.9	26.1	20.05	5.67	14.38
3: 144380	< 0.01	< 0.01	4.15	100.2	0.35	0.31	24.8	34.3	20.10	7.71	12.39
4: 144381	0.01	< 0.01	5.12	99.5	0.67	0.61	19.0	26.2	20.02	6.15	13.87
5: 144382	< 0.01	< 0.01	7.89	100.1	0.18	0.09	23.4	32.3	20.04	7.07	12.97
6: 144383	< 0.01	< 0.01	13.4	100.0	1.33	1.15	1.3	1.8	20.09	0.04	20.05
7: 144384	< 0.01	< 0.01	13.3	99.2	1.05	0.92	7.1	9.8	20.09	1.91	18.18
8: 144385	< 0.01	< 0.01	12.2	99.8	0.11	0.09	16.9	23.4	20.05	4.85	15.20
9: 144386	< 0.01	< 0.01	16.1	99.2	1.19	1.09	5.1	7.1	20.04	1.38	18.66
10: 144387	< 0.01	< 0.01	17.1	99.1	1.48	1.33	4.6	6.4	20.08	1.26	18.82
11: 144388	0.05	< 0.01	0.78	100.0	0.01	< 0.05	0.8	1.1	20.06	0.01	20.05
12: 144389	0.01	< 0.01	16.8	98.9	6.56	6.21	2.9	4.0	20.04	0.68	19.36
13: 144390	< 0.01	< 0.01	15.6	99.2	2.72	2.51	3.2	4.4	20.05	0.78	19.27
14: 144391	< 0.01	< 0.01	16.5	99.9	0.16	0.15	5.9	8.2	20.04	1.60	18.44
15: 144392	0.01	< 0.01	15.9	100.5	0.16	0.09	6.7	9.2	20.03	1.88	18.15



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LR Report : CA02843-OCT11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %
16: 144393	43.7	0.04	35.4	2.73	1.11	< 0.01	0.02	< 0.01	0.11	0.13
17: 144394	52.9	0.30	30.2	1.90	0.18	< 0.01	0.07	0.02	0.06	0.28
18: 144395	51.7	0.11	30.1	1.98	0.39	< 0.01	0.03	0.01	0.06	0.13
19: 144396	42.6	0.07	37.5	1.79	0.39	< 0.01	0.02	< 0.01	0.09	0.09
20: 144397	42.5	0.01	47.0	1.51	0.24	< 0.01	< 0.01	< 0.01	0.09	0.06
21: 144398	40.4	0.06	46.5	1.46	0.28	< 0.01	< 0.01	< 0.01	0.07	0.08
22: 144399	94.2	1.61	1.28	1.06	0.87	0.35	0.18	0.06	0.01	< 0.01
23: 144400	43.5	0.07	36.6	1.86	0.58	< 0.01	0.02	< 0.01	0.06	0.10
24: 144401	43.7	0.10	43.3	1.70	0.94	< 0.01	0.01	< 0.01	0.07	0.07
25: 144402	43.6	0.16	42.0	2.19	1.52	< 0.01	0.01	0.01	0.11	0.07
26: 144403	46.8	0.21	36.2	2.33	1.76	< 0.01	0.05	< 0.01	0.08	0.09
27: 144404	51.8	0.20	37.1	2.47	1.72	0.01	0.09	< 0.01	0.08	0.08
28: 144405	46.8	0.21	43.4	2.73	1.89	< 0.01	0.11	0.01	0.10	0.09
29: 144406	50.2	0.17	41.0	1.92	0.38	< 0.01	0.08	0.01	0.10	0.11
30: 144407	49.4	0.44	43.4	2.14	0.76	< 0.01	0.09	0.04	0.10	0.09
31: 144408	50.4	0.14	42.6	2.32	0.85	< 0.01	0.08	< 0.01	0.11	0.07
32: 144409	51.1	0.26	39.8	1.89	0.51	0.02	0.07	0.01	0.10	0.06
33: 144410	50.6	0.54	37.0	1.83	0.44	0.02	0.07	0.06	0.09	0.10
34: 144411	44.2	2.05	32.2	3.40	1.81	< 0.01	0.02	0.12	0.11	0.14
35: 144412	39.6	2.46	34.7	3.99	2.00	< 0.01	< 0.01	0.12	0.06	0.25
36: 144413	42.5	2.31	31.4	3.76	1.71	< 0.01	< 0.01	0.11	0.06	0.22
37: 144414	55.5	14.2	7.81	3.02	5.18	2.13	2.30	0.55	0.11	0.10
38: 144415	51.1	0.97	43.8	0.32	0.24	< 0.01	0.06	0.04	0.09	0.02
39: 144416	54.1	4.61	30.9	2.11	1.94	0.06	0.88	0.19	0.17	0.07

Sample ID	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %	Feed g	Mag g	Non Mag g
16: 144393	< 0.01	< 0.01	16.6	99.8	0.11	0.08	4.0	5.5	20.07	1.06	19.01
17: 144394	< 0.01	< 0.01	13.1	99.1	7.60	7.60	4.7	6.5	20.08	1.32	18.76
18: 144395	0.01	< 0.01	15.5	100.0	0.11	0.06	0.8	1.1	20.04	< .01	20.04
19: 144396	< 0.01	< 0.01	17.5	100.2	0.13	0.07	2.4	3.3	20.07	0.49	19.58
20: 144397	< 0.01	< 0.01	8.46	99.8	0.25	0.24	21.4	29.5	20.08	6.55	13.53
21: 144398	< 0.01	< 0.01	10.8	99.7	0.19	0.18	17.2	23.8	20.07	5.25	14.82
22: 144399	0.03	< 0.01	1.01	100.7	0.08	< 0.05	0.7	1.0	20.01	0.01	20.00
23: 144400	< 0.01	< 0.01	16.9	99.7	0.55	0.54	3.0	4.2	20.06	0.78	19.28
24: 144401	0.01	< 0.01	9.51	99.4	0.08	0.07	17.6	24.3	20.03	4.97	15.06
25: 144402	< 0.01	< 0.01	10.3	100.0	0.14	0.10	16.5	22.8	20.06	4.70	15.36
26: 144403	< 0.01	< 0.01	12.4	100.0	0.08	0.07	10.3	14.2	20.03	2.88	17.15
27: 144404	< 0.01	< 0.01	6.73	100.3	0.08	0.08	16.2	22.3	20.07	5.41	14.66
28: 144405	< 0.01	< 0.01	5.22	100.5	0.06	0.06	21.6	29.9	---	---	---
29: 144406	< 0.01	< 0.01	6.52	100.5	0.09	0.09	19.5	26.9	20.04	6.52	13.52
30: 144407	< 0.01	< 0.01	4.53	100.9	0.11	0.11	22.9	31.6	20.08	7.34	12.74
31: 144408	< 0.01	< 0.01	3.71	100.3	0.08	0.07	22.4	31.0	20.03	7.17	12.86
32: 144409	< 0.01	< 0.01	5.79	99.6	0.96	0.95	19.9	27.5	20.03	6.07	13.96
33: 144410	0.02	< 0.01	9.09	99.9	0.40	0.38	13.9	19.2	20.10	4.34	15.76
34: 144411	< 0.01	< 0.01	16.4	100.5	0.30	0.28	2.0	2.7	20.06	0.27	19.79
35: 144412	< 0.01	< 0.01	17.5	100.7	0.81	0.77	0.7	1.0	20.05	< .01	20.05
36: 144413	0.01	< 0.01	16.6	98.7	0.76	0.76	0.8	1.1	20.11	< .01	20.11
37: 144414	0.05	0.03	9.04	100.1	0.05	< 0.05	0.6	0.9	20.02	< .01	20.02
38: 144415	< 0.01	< 0.01	3.14	99.8	0.30	0.28	14.8	20.5	---	---	---
39: 144416	< 0.01	< 0.01	4.04	99.1	0.71	0.70	14.6	20.2	20.03	4.81	15.22



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LR Report : CA02843-OCT11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %
40: 144417	8.00	0.97	87.1	0.02	0.03	< 0.01	0.03	0.05	0.13	1.01
41: 144418	46.7	0.07	49.1	1.82	0.76	< 0.01	0.04	< 0.01	0.12	0.03
42: 144419	46.3	0.07	49.5	1.74	0.82	< 0.01	0.04	< 0.01	0.11	0.03
43: 144420	53.3	0.40	38.3	1.73	0.48	0.02	0.08	0.02	0.11	0.05
44: 144421	44.8	0.07	48.5	1.70	0.73	< 0.01	0.03	< 0.01	0.12	0.05
45: 144422	61.4	0.22	26.3	2.17	0.39	< 0.01	0.01	< 0.01	0.06	0.26
46: 144423	62.4	0.31	25.3	1.60	0.13	< 0.01	< 0.01	0.02	0.04	0.26
47: 144424	53.4	0.20	28.5	2.18	0.70	< 0.01	0.01	0.01	0.05	0.16
48: 144425	43.4	0.12	37.0	2.15	1.19	< 0.01	0.01	< 0.01	0.06	0.07
49: 144426	44.3	1.81	45.7	1.17	0.22	< 0.01	0.01	0.11	0.08	0.04
50-BLK: Sud-Sam	49.9	12.9	7.88	12.1	12.8	1.01	0.18	0.24	0.03	0.16
51: 144427	49.1	0.07	49.6	0.17	0.06	< 0.01	< 0.01	< 0.01	0.08	0.02
52: 144428	50.6	0.11	47.0	0.47	0.17	< 0.01	< 0.01	< 0.01	0.07	0.02
53: 144429	52.5	0.06	44.7	0.47	0.17	< 0.01	< 0.01	< 0.01	0.07	0.02
54: 144430	49.1	0.04	46.8	0.98	0.49	< 0.01	< 0.01	< 0.01	0.08	0.03
55: 144431	42.8	0.04	49.2	1.73	1.32	< 0.01	< 0.01	< 0.01	0.07	0.03
56: 144432	41.0	0.01	51.7	1.55	2.35	< 0.01	0.01	< 0.01	0.07	0.03
57: 144433	43.3	0.02	51.6	1.60	0.61	< 0.01	0.01	< 0.01	0.09	0.03
58: 144434	52.4	0.05	42.8	1.77	0.44	< 0.01	0.05	< 0.01	0.05	0.03
59: 144435	49.0	0.03	46.2	1.96	0.89	< 0.01	0.03	< 0.01	0.06	0.05
60: 144436	43.4	< 0.01	52.3	1.44	0.98	< 0.01	< 0.01	< 0.01	0.05	0.05
61: 144437	25.2	6.63	49.8	2.66	3.06	1.07	0.71	0.60	0.09	0.10
62: 144438	52.9	0.03	41.6	0.63	0.14	< 0.01	< 0.01	< 0.01	0.07	0.04
63: 144439	44.3	0.03	44.8	1.84	0.84	< 0.01	< 0.01	< 0.01	0.07	0.07

Sample ID	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %	Feed g	Mag g	Non Mag g
40: 144417	< 0.01	< 0.01	3.38	100.7	0.04	< 0.05	2.8	3.8	---	---	---
41: 144418	< 0.01	< 0.01	1.58	100.2	0.08	0.08	29.4	40.6	20.06	9.54	10.52
42: 144419	< 0.01	< 0.01	1.58	100.2	0.07	0.07	29.8	41.2	20.04	9.31	10.73
43: 144420	< 0.01	< 0.01	4.99	99.5	1.10	1.11	19.3	26.7	20.08	5.90	14.18
44: 144421	< 0.01	< 0.01	3.82	99.8	0.31	0.31	27.2	37.5	20.04	8.33	11.71
45: 144422	0.01	< 0.01	8.86	99.6	1.13	1.12	8.2	11.4	20.07	2.56	17.51
46: 144423	< 0.01	< 0.01	9.45	99.6	2.44	2.41	5.3	7.3	20.02	1.50	18.52
47: 144424	< 0.01	< 0.01	14.6	99.7	0.85	0.80	1.1	1.5	20.10	0.01	20.09
48: 144425	< 0.01	< 0.01	15.8	99.8	0.35	0.30	4.8	6.6	20.03	1.17	18.86
49: 144426	< 0.01	< 0.01	6.70	100.2	0.16	0.11	15.8	21.8	20.08	4.79	15.29
50-BLK: Sud-Sam	0.11	0.04	2.74	100.0	0.03	< 0.05	0.6	0.9	20.04	< .01	20.04
51: 144427	< 0.01	< 0.01	1.11	100.2	0.04	< 0.05	26.8	37.0	20.00	8.17	11.83
52: 144428	< 0.01	< 0.01	1.68	100.1	0.24	0.20	25.5	35.2	20.11	7.74	12.37
53: 144429	0.01	< 0.01	1.98	100.0	0.18	0.16	23.8	32.9	20.97	7.63	13.34
54: 144430	< 0.01	< 0.01	2.40	99.9	0.05	< 0.05	28.4	39.3	20.00	8.37	11.63
55: 144431	< 0.01	< 0.01	5.15	100.3	0.05	< 0.05	28.7	39.7	20.10	8.39	11.71
56: 144432	< 0.01	< 0.01	3.26	100.0	0.03	< 0.05	34.3	47.4	20.25	9.99	10.26
57: 144433	< 0.01	< 0.01	2.62	99.8	0.02	< 0.05	32.1	44.3	20.20	9.41	10.79
58: 144434	< 0.01	< 0.01	1.75	99.4	0.36	0.36	24.6	34.0	20.40	7.69	12.71
59: 144435	< 0.01	< 0.01	1.99	100.1	0.11	0.09	26.6	36.7	20.47	8.21	12.26
60: 144436	< 0.01	< 0.01	1.82	100.0	0.05	< 0.05	33.7	46.5	20.54	10.04	10.50
61: 144437	0.03	0.03	8.74	98.7	17.9	16.8	7.9	10.9	---	---	---
62: 144438	< 0.01	< 0.01	4.52	100.0	0.29	0.29	17.9	24.7	20.30	5.16	15.14
63: 144439	< 0.01	< 0.01	8.32	100.3	0.05	< 0.05	20.4	28.2	20.08	5.98	14.10

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %
64: 144440	50.7	0.03	46.2	0.57	0.21	< 0.01	< 0.01	< 0.01	0.09	0.06
65: 144441	47.7	0.05	51.8	0.27	0.51	< 0.01	< 0.01	< 0.01	0.10	0.04
66: 144442	50.1	0.14	42.7	1.06	0.72	< 0.01	< 0.01	< 0.01	0.07	0.06
67: 144443	49.7	0.22	40.7	1.78	1.88	< 0.01	0.08	0.01	0.09	0.05
68: 144444	48.2	0.23	41.7	2.05	1.01	< 0.01	0.10	0.02	0.10	0.08
69: 144445	50.6	0.40	36.2	2.09	0.69	< 0.01	0.03	0.02	0.08	0.11
70: 144446	91.7	1.43	0.97	1.42	1.97	0.33	0.20	0.05	0.01	< 0.01
71: 144447	52.8	2.84	26.7	2.96	0.61	< 0.01	0.06	0.13	0.04	0.21
74-REP: 144427	49.5	0.08	49.6	0.18	0.07	< 0.01	< 0.01	< 0.01	0.08	0.03

Sample ID	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %	Feed g	Mag g	Non Mag g
64: 144440	< 0.01	< 0.01	2.59	100.4	< 0.01	< 0.05	23.8	32.9	20.02	6.78	13.24
65: 144441	< 0.01	< 0.01	-0.28	100.3	0.06	< 0.05	33.3	46.0	---	---	---
66: 144442	< 0.01	< 0.01	5.16	100.0	0.87	0.86	20.8	28.7	20.23	5.98	14.25
67: 144443	< 0.01	< 0.01	4.57	99.0	0.23	0.23	22.0	30.4	---	---	---
68: 144444	< 0.01	< 0.01	5.21	98.7	1.47	1.39	20.3	28.1	20.54	6.41	14.13
69: 144445	< 0.01	< 0.01	8.80	99.1	1.54	1.52	14.3	19.7	20.26	4.50	15.76
70: 144446	0.01	< 0.01	2.55	100.6	< 0.01	< 0.05	0.9	1.2	20.51	0.04	20.47
71: 144447	< 0.01	< 0.01	13.1	99.5	1.02	1.00	0.7	1.0	20.61	0.02	20.59
74-REP: 144427	< 0.01	< 0.01	1.19	100.8	0.04	< 0.05	26.9	37.1	20.01	8.09	11.92

Control Quality Analysis - Not suitable for commercial exchange



\_\_\_\_\_  
**April Rice**  
 Project Coordinator

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**Rogue Resources**

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November 7, 2011

**Date Rec. :** 18 October 2011

**LR Report :** CA02878-OCT11

**Client Ref :** 12951 to 121957

## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Cu %	Ni %	Au g/t
1-BLK: Sud-Sample Prep BLK	< 0.5	< 20	< 0.02
2: 12951	< 0.5	< 20	< 0.02
3: 12952	< 0.5	< 20	0.02
4: 12953	< 0.5	< 20	0.03
5: 12954	< 0.5	< 20	0.04
6: 12955	< 0.5	< 20	0.04
7: 12956	< 0.5	< 20	0.02
8: 12957	< 0.5	< 20	< 0.02

Control Quality Analysis - Not suitable for commercial exchange

April Rice  
Project Coordinator

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November 4, 2011

Date Rec. : 01 November 2011  
LR Report : CA02959-OCT11  
Client Ref : 144001 to 144049 Mags

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
1-BLK: Sud-Sample Prep BLK	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr
2: 144001	9.12	0.64	89.1	0.08	0.08	0.03	0.02	0.03	0.03	0.02	0.03	< 0.01	1.33	100.5
3: 144002	5.03	0.63	92.6	0.07	0.10	0.02	< 0.01	0.06	0.04	0.02	0.13	< 0.01	1.07	99.7
4: 144003	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
5: 144004	5.64	0.51	93.0	0.03	0.05	0.01	< 0.01	< 0.01	0.11	0.02	0.04	< 0.01	1.51	100.9
6: 144005	5.70	0.18	94.1	0.26	0.08	< 0.01	< 0.01	0.02	0.03	0.02	0.08	< 0.01	0.33	100.8
7: 144006	6.95	0.41	90.3	0.11	0.05	0.02	< 0.01	0.03	0.06	0.02	0.11	< 0.01	1.76	99.8
8: 144007	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
9: 144008	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
10: 144009	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
11: 144010	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
12: 144011	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
13: 144012	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
14: 144013	10.0	0.36	89.8	0.89	0.13	0.08	0.03	0.04	0.03	0.05	0.15	< 0.01	-1.00	100.5
15: 144014	11.2	0.06	90.3	0.80	0.19	< 0.01	0.04	0.01	0.04	0.02	0.04	< 0.01	-1.88	100.8
16: 144015	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
17: 144016	10.6	0.09	89.2	0.68	0.20	< 0.01	0.03	0.01	0.06	0.02	0.04	< 0.01	-1.10	99.9
18: 144017	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr
19: 144018	13.3	0.15	87.5	0.69	0.24	0.02	0.06	0.03	0.08	0.04	0.03	< 0.01	-0.73	101.4
20: 144019	12.3	0.50	87.0	0.68	0.14	0.02	0.03	0.03	0.06	0.04	0.08	< 0.01	-1.09	99.8
21: 144020	11.4	0.15	89.0	0.48	0.10	0.01	0.04	0.04	0.03	0.04	0.07	< 0.01	-0.77	100.5
22: 144021	11.9	0.04	88.8	0.65	0.09	< 0.01	0.02	0.02	0.04	0.03	0.04	< 0.01	-1.12	100.6
23: 144022	12.4	0.34	86.0	0.60	0.17	< 0.01	0.02	0.02	0.07	0.06	0.09	< 0.01	0.05	99.8
24: 144023	5.54	0.13	92.3	0.60	0.21	< 0.01	< 0.01	< 0.01	0.08	0.03	0.08	< 0.01	0.91	99.9
25: 144024	4.46	0.04	93.2	0.62	0.25	< 0.01	< 0.01	< 0.01	0.11	0.03	0.07	< 0.01	1.43	100.2
26: 144025	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
27: 144026	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
28: 144027	4.52	< 0.01	98.0	0.23	0.07	< 0.01	< 0.01	< 0.01	0.03	0.02	0.05	< 0.01	-1.58	101.4
29: 144028	4.97	< 0.01	98.3	0.09	0.07	< 0.01	< 0.01	0.01	0.03	0.01	0.04	< 0.01	-2.23	101.3
30: 144029	5.75	0.03	97.5	0.10	0.04	0.01	< 0.01	0.01	0.02	< 0.01	0.06	< 0.01	-2.53	101.0
31: 144030	4.90	0.02	97.8	0.15	0.04	< 0.01	< 0.01	< 0.01	0.02	< 0.01	0.03	< 0.01	-2.34	100.6
32: 144031	5.28	< 0.01	98.1	0.11	0.03	< 0.01	< 0.01	< 0.01	0.02	< 0.01	0.03	< 0.01	-2.92	100.6

OnLine LIMS



SGS Canada Inc.

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LR Report : CA02959-OCT11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
33: 144032	5.20	0.02	97.5	0.12	0.04	< 0.01	< 0.01	< 0.01	0.02	< 0.01	0.04	< 0.01	-2.80	100.1
34: 144033	5.72	< 0.01	96.7	0.09	0.05	< 0.01	< 0.01	< 0.01	0.03	< 0.01	0.04	< 0.01	-2.77	99.8
35: 144034	4.71	0.02	98.2	0.11	0.04	< 0.01	< 0.01	< 0.01	0.01	< 0.01	0.03	< 0.01	-2.86	100.2
36: 144035	5.15	0.05	96.8	0.17	0.05	< 0.01	< 0.01	< 0.01	0.03	< 0.01	0.04	< 0.01	-2.87	99.4
37: 144036	5.26	0.07	97.8	0.25	0.06	< 0.01	< 0.01	< 0.01	0.03	< 0.01	0.05	< 0.01	-2.40	101.2
38: 144037	4.59	0.04	98.4	0.22	0.06	< 0.01	< 0.01	< 0.01	0.04	0.01	0.06	< 0.01	-2.36	101.1
39: 144038	3.85	< 0.01	98.9	0.24	0.08	< 0.01	0.01	< 0.01	0.04	< 0.01	0.08	< 0.01	-1.89	101.3
40: 144039	4.55	0.36	95.0	0.45	0.17	0.02	0.03	0.02	0.04	0.03	0.19	< 0.01	-0.12	100.7
41: 144040	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr
42: 144041	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
43: 144042	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr
44: 144043	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr
45: 144044	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr
46: 144045	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr
47: 144046	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr
48: 144047	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr
49: 144048	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr
50-BLK: Sud-Sample Prep BLK	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr
51: 144049	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr

Control Quality Analysis - Not suitable for commercial exchange

April Rice  
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**Rogue Resources**  
Attn : Freeman Smith

Suite 202, 200 Granville Square, Vancouver  
, V6C 1S4  
Phone: 604-629-1808, Fax:604-229-0481

December 9, 2011

**Date Rec. :** 17 November 2011  
**LR Report :** CA03055-NOV11  
**Client Ref :** 144050 to 144061 Mags

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
1-BLK: Sud-Sample Prep B	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss
2: 144050	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss
3: 144051	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss
4: 144052	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss
5: 144053	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss
6: 144054	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss
7: 144055	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss
8: 144056	4.19	0.26	96.2	0.23	0.12	0.04	0.02	0.01	0.02	0.04	0.06	< 0.01	-1.19	100.1
9: 144057	4.94	0.04	97.0	0.14	0.07	0.03	< 0.01	< 0.01	0.03	0.02	0.08	< 0.01	-1.65	100.7
10: 144058	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss
11: 144059	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss
12: 144060	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss
13: 144061	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss

Control Quality Analysis - Not suitable for commercial exchange



\_\_\_\_\_  
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Project Coordinator

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Rogue Resources

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January 27, 2012

Date Rec. : 19 December 2011

LR Report : CA03059-DEC11

Client Ref : 104929 to 104972

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
1-BLK: Sud-Sample Pr	48.9	11.4	7.14	11.6	14.0	1.29	0.26	0.24	0.01
2: 104929	55.1	7.50	26.6	2.13	0.08	0.02	0.30	0.41	0.13
3: 104930	58.9	0.78	28.0	1.34	0.14	0.02	< 0.01	0.04	0.05
4: 104931	58.4	2.81	24.4	2.92	1.57	0.32	0.01	0.14	0.09
5: 104932	49.5	0.55	36.7	1.92	0.55	0.01	< 0.01	0.02	0.09
6: 104933	44.2	1.12	37.9	2.57	0.56	< 0.01	< 0.01	0.21	0.08
7: 104934	46.3	0.50	33.2	2.68	0.65	< 0.01	< 0.01	0.04	0.10
8: 104935	48.5	0.59	36.7	3.47	1.59	< 0.01	0.01	0.03	0.08
9: 104936	56.9	14.0	6.62	2.86	6.14	3.23	1.42	0.60	0.15
10: 104937	72.8	3.92	15.6	1.01	0.10	0.01	0.39	0.17	0.08
11: 104938	53.7	0.39	32.4	1.89	0.18	0.02	0.02	0.02	0.05
12: 104939	48.1	0.41	39.1	1.66	0.24	0.02	0.11	0.02	0.08
13: 104940	49.5	0.46	38.3	1.64	0.25	0.02	0.12	0.02	0.09
14: 104941	58.8	15.3	10.6	3.29	0.72	4.14	1.40	0.68	0.35
15: 104942	56.2	11.6	20.4	2.66	0.56	2.80	0.91	0.53	0.33

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
1-BLK: Sud-Sample Pr	0.17	0.10	0.03	5.07	100.3	0.02	<0.05	0.4	0.6
2: 104929	< 0.01	0.04	< 0.01	7.33	99.7	1.14	1.06	0.5	0.7
3: 104930	0.07	< 0.01	< 0.01	10.4	99.7	2.27	2.25	2.8	3.8
4: 104931	0.08	0.02	< 0.01	8.13	98.9	1.10	1.10	3.5	4.8
5: 104932	0.08	0.01	< 0.01	10.2	99.6	1.32	1.32	12.3	17.0
6: 104933	0.13	0.02	< 0.01	13.1	100.0	0.50	0.45	8.8	12.2
7: 104934	0.11	< 0.01	< 0.01	16.5	100.1	0.24	0.24	1.7	2.3
8: 104935	0.11	< 0.01	< 0.01	8.87	100.0	0.62	0.62	15.2	21.0
9: 104936	0.08	0.04	0.03	7.70	99.7	0.02	<0.05	0.4	0.6
10: 104937	0.03	0.02	< 0.01	5.39	99.5	1.20	1.20	0.8	1.1
11: 104938	0.11	< 0.01	< 0.01	11.2	100.0	0.80	0.73	6.7	9.3
12: 104939	0.09	0.01	< 0.01	9.49	99.3	0.43	0.42	14.0	19.3
13: 104940	0.10	0.02	< 0.01	9.29	99.7	0.46	0.44	13.6	18.8
14: 104941	0.10	0.02	0.02	4.74	100.1	0.01	<0.05	0.6	0.8
15: 104942	0.07	0.02	0.01	3.54	99.6	0.03	<0.05	7.4	10.2



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LR Report : CA03059-DEC11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
16: 104943	53.3	7.97	29.2	2.19	0.47	1.94	0.59	0.33	0.26
17: 104944	59.6	14.5	11.0	3.28	0.66	2.96	1.67	0.62	0.37
18: 104945	45.2	0.38	48.8	1.45	1.05	0.04	0.17	0.01	0.19
19: 104946	49.5	1.30	41.0	2.10	0.91	0.01	0.21	0.08	0.15
20: 104947	48.2	0.26	41.0	1.32	0.31	< 0.01	0.09	0.01	0.12
21: 104948	93.8	0.98	0.92	0.96	1.30	0.28	0.14	0.03	0.01
22: 104949	46.6	2.07	37.2	1.83	0.37	0.09	0.33	0.11	0.14
23: 104950	45.9	0.23	36.3	1.82	0.35	< 0.01	0.03	< 0.01	0.08
24: 104951	40.6	0.61	38.1	2.51	0.41	< 0.01	0.04	0.04	0.10
25: 104952	8.04	0.96	87.2	0.04	0.03	0.03	0.03	0.04	0.13
26: 104953	49.3	1.84	30.6	2.99	0.38	0.02	0.06	0.14	0.13
27: 104954	44.3	0.26	35.4	2.17	0.38	< 0.01	0.01	0.02	0.10
28: 104955	42.9	0.05	43.4	1.54	0.38	< 0.01	< 0.01	< 0.01	0.11
29: 104956	48.3	0.12	32.8	2.21	0.36	0.02	< 0.01	< 0.01	0.07
30: 104957	56.9	0.80	25.9	2.26	0.30	0.07	0.06	0.04	0.07
31: 104958	38.8	0.23	41.8	2.22	0.38	0.02	0.02	< 0.01	0.06
32: 104959	44.5	0.06	48.7	1.26	0.26	0.01	< 0.01	< 0.01	0.07
33: 104960	44.0	0.10	50.2	1.17	0.23	< 0.01	0.02	0.02	0.07
34: 104961	45.9	0.05	47.9	1.47	0.31	< 0.01	< 0.01	< 0.01	0.08
35: 104962	43.8	0.12	48.5	1.67	0.21	< 0.01	0.01	< 0.01	0.07
36: 104963	42.2	0.20	50.7	1.34	0.42	< 0.01	0.02	0.03	0.09
37: 104964	48.3	0.12	45.7	1.00	0.39	< 0.01	< 0.01	0.03	0.08
38: 104965	47.7	0.81	42.4	2.23	1.26	0.16	0.07	0.06	0.12
39: 104966	46.0	1.07	40.0	2.17	0.75	0.18	0.20	0.06	0.12

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
16: 104943	0.08	0.01	< 0.01	3.92	100.2	0.39	0.38	12.2	16.8
17: 104944	0.09	0.02	0.01	4.69	99.5	0.22	0.22	0.6	0.8
18: 104945	0.07	< 0.01	< 0.01	2.19	99.6	0.22	0.22	19.2	26.5
19: 104946	0.07	< 0.01	< 0.01	4.61	99.9	0.14	0.14	15.7	21.7
20: 104947	0.03	0.01	< 0.01	8.78	100.1	0.24	0.23	15.7	21.7
21: 104948	< 0.01	0.03	< 0.01	1.63	100.1	< 0.01	< 0.05	0.9	1.2
22: 104949	0.07	0.02	< 0.01	10.8	99.6	0.87	0.87	10.7	14.8
23: 104950	0.09	0.01	< 0.01	15.3	100.1	0.61	0.61	4.5	6.2
24: 104951	0.11	0.01	< 0.01	17.2	99.7	0.94	0.89	4.2	5.8
25: 104952	1.00	< 0.01	< 0.01	3.07	100.6	< 0.01	< 0.05	2.4	3.3
26: 104953	0.16	0.02	< 0.01	14.3	100.0	0.32	0.32	2.8	3.8
27: 104954	0.13	0.01	< 0.01	16.5	99.3	1.42	1.42	3.1	4.3
28: 104955	0.05	< 0.01	< 0.01	11.7	100.0	0.13	0.13	14.3	19.7
29: 104956	0.10	0.01	< 0.01	16.3	100.3	0.18	0.17	2.4	3.3
30: 104957	0.13	< 0.01	< 0.01	13.7	100.2	1.15	1.15	0.9	1.2
31: 104958	0.05	0.01	< 0.01	16.6	100.2	0.03	< 0.05	26.1	36.0
32: 104959	0.02	< 0.01	< 0.01	4.92	99.8	0.10	0.05	26.1	36.0
33: 104960	0.02	0.02	< 0.01	4.16	100.0	0.15	0.14	29.3	40.5
34: 104961	0.03	< 0.01	< 0.01	4.20	100.0	0.08	0.08	27.9	38.5
35: 104962	0.04	0.01	< 0.01	6.19	100.5	0.14	0.14	25.7	35.5
36: 104963	0.03	0.02	< 0.01	4.71	99.7	0.07	0.07	29.2	40.4
37: 104964	0.02	0.02	< 0.01	4.28	100.0	0.21	0.21	25.5	35.2
38: 104965	0.05	0.02	< 0.01	6.12	101.0	0.20	0.15	21.2	29.3
39: 104966	0.05	0.01	< 0.01	9.42	100.0	0.11	0.11	15.8	21.8

OnLine LIMS

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
40: 104967	44.1	0.15	43.7	2.03	0.42	< 0.01	0.06	< 0.01	0.08
41: 104968	25.0	6.57	48.5	2.66	3.06	1.12	0.71	0.60	0.10
42: 104969	46.7	1.32	33.0	2.39	0.42	< 0.01	0.18	0.07	0.10
43: 104970	58.0	16.2	8.25	3.03	2.89	2.00	2.32	0.67	0.16
44: 104971	43.3	1.19	34.0	3.45	2.38	< 0.01	< 0.01	0.05	0.06
45: 104972	54.7	6.11	23.4	3.25	1.53	< 0.01	< 0.01	0.29	0.07
46-DUP: 104946	49.5	1.32	41.1	2.09	0.90	0.02	0.20	0.07	0.15

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
40: 104967	0.04	< 0.01	< 0.01	9.67	100.3	0.05	0.05	17.7	24.5
41: 104968	0.08	0.03	0.03	9.20	97.6	17.7	16.5	8.3	11.5
42: 104969	0.08	< 0.01	< 0.01	15.6	99.9	0.60	0.55	2.5	3.4
43: 104970	0.07	0.04	0.03	5.75	99.4	0.07	0.07	0.4	0.6
44: 104971	0.16	< 0.01	< 0.01	14.1	98.7	0.62	0.62	3.5	4.8
45: 104972	0.16	0.01	0.01	8.06	97.7	2.52	2.52	0.4	0.5
46-DUP: 104946	0.06	0.01	< 0.01	4.64	100.1	---	---	---	---

Control Quality Analysis - Not suitable for commercial exchange



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**April Rice**  
 Project Coordinator

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, V6C 1S4  
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February 15, 2012

**Date Rec. :** 19 December 2011  
**LR Report :** CA03060-DEC11  
**Client Ref :** 104973 to 105016

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
1-BLK: Sud-Sample Prep BLK	50.2	12.7	7.42	12.3	12.7	1.22	0.26	0.35	0.01
2: 104973	44.2	0.12	54.3	0.30	0.50	< 0.01	0.02	< 0.01	0.12
3: 104974	46.5	0.23	49.9	1.14	0.31	< 0.01	0.07	< 0.01	0.09
4: 104975	49.2	0.10	47.5	0.96	0.22	< 0.01	0.02	< 0.01	0.09
5: 104976	93.6	1.24	1.07	0.95	1.53	0.30	0.18	0.04	0.02
6: 104977	52.6	0.06	45.6	0.71	0.15	< 0.01	0.01	< 0.01	0.10
7: 104978	44.6	0.08	52.8	0.84	0.28	< 0.01	0.02	0.01	0.07
8: 104979	47.7	0.14	48.0	1.17	0.13	< 0.01	0.02	< 0.01	0.07
9: 104980	49.3	0.13	46.6	0.86	0.10	< 0.01	0.01	< 0.01	0.07
10: 104981	51.0	2.70	40.7	1.74	0.48	0.28	0.12	0.15	0.17
11: 104982	52.3	2.92	38.6	1.74	0.46	0.36	0.13	0.15	0.17
12: 104983	46.3	0.91	41.2	2.64	0.64	0.12	0.12	0.04	0.11
13: 104984	40.7	1.68	51.2	1.72	1.42	0.56	0.05	0.09	0.18
14: 104985	49.4	0.35	45.9	1.34	0.98	0.06	0.04	0.02	0.08
15: 104986	46.9	0.10	50.3	1.50	0.24	< 0.01	0.05	< 0.01	0.08

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
1-BLK: Sud-Sample Prep BLK	0.15	0.12	0.04	2.39	99.8	0.05	<0.05	0.5	0.7
2: 104973	0.03	< 0.01	< 0.01	0.12	99.7	< 0.01	<0.05	0.5	0.7
3: 104974	0.05	< 0.01	< 0.01	1.79	100.0	0.03	<0.05	28.7	39.6
4: 104975	0.03	0.01	< 0.01	2.00	100.1	0.20	0.20	30.1	41.6
5: 104976	0.02	0.02	< 0.01	1.54	100.5	< 0.01	<0.05	0.6	0.9
6: 104977	0.03	< 0.01	< 0.01	0.98	100.2	0.13	0.13	30.2	41.7
7: 104978	0.04	0.01	< 0.01	0.99	99.8	0.18	0.18	34.1	47.1
8: 104979	0.05	0.02	< 0.01	3.05	100.3	0.27	0.27	28.1	38.8
9: 104980	0.05	0.01	< 0.01	2.14	99.3	0.29	0.29	28.2	38.9
10: 104981	0.08	0.02	< 0.01	3.05	100.5	0.35	0.35	22.2	30.6
11: 104982	0.09	0.01	< 0.01	3.09	100.0	0.37	0.37	21.1	29.1
12: 104983	0.08	< 0.01	< 0.01	7.68	99.9	2.39	2.39	18.6	25.7
13: 104984	0.04	< 0.01	< 0.01	0.86	98.6	0.14	0.14	13.5	18.7
14: 104985	0.03	0.01	< 0.01	0.48	98.7	0.03	<0.05	32.9	45.4
15: 104986	0.04	< 0.01	< 0.01	0.59	99.8	0.05	0.05	32.9	45.5

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**LR Report : CA03060-DEC11**

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
16: 104987	52.0	0.39	43.5	1.69	0.44	< 0.01	0.07	0.07	0.08
17: 104988	50.3	0.03	47.4	1.24	0.23	< 0.01	0.03	< 0.01	0.08
18: 104989	49.7	0.11	45.7	1.50	0.43	< 0.01	0.05	< 0.01	0.08
19: 104990	48.9	0.32	46.2	1.14	0.22	< 0.01	0.04	< 0.01	0.08
20: 104991	56.8	10.1	19.9	2.20	1.93	3.45	0.30	0.43	0.26
21: 104992	57.5	14.1	8.23	3.53	2.95	2.94	2.14	0.83	0.50
22: 104993	49.8	0.66	40.1	1.85	1.04	0.04	0.17	0.03	0.11
23: 104994	57.4	15.7	11.4	3.67	1.18	2.33	2.25	0.76	0.43
24: 104995	61.8	7.96	19.6	2.79	0.38	0.14	1.08	0.40	0.23
25: 104996	42.1	0.16	43.8	2.83	1.07	< 0.01	0.05	0.01	0.07
26: 104997	42.1	0.18	49.7	2.59	0.56	0.01	0.08	< 0.01	0.10
27: 104998	49.1	3.57	34.4	4.27	2.45	0.23	0.29	0.21	0.18
28: 104999	51.3	13.7	9.43	5.92	5.77	3.34	0.77	0.62	0.51
29: 105000	49.0	0.65	39.6	2.72	1.19	0.01	0.14	0.04	0.11
30: 105001	43.0	0.21	46.7	1.88	0.84	0.01	0.07	< 0.01	0.14
31: 105002	41.0	0.42	36.3	2.77	0.70	0.02	0.06	0.03	0.12
32: 105003	42.3	0.49	35.7	2.64	0.64	< 0.01	< 0.01	0.03	0.10
33: 105004	43.2	1.61	37.1	2.65	0.61	0.16	0.05	0.07	0.12
34: 105005	42.3	0.19	35.9	2.20	0.49	< 0.01	< 0.01	< 0.01	0.11
35: 105006	53.1	13.1	6.71	3.89	7.59	2.84	1.59	0.51	0.13
36: 105007	52.6	13.2	6.70	4.04	7.81	2.83	1.58	0.51	0.14
37: 105008	51.8	0.33	45.1	0.04	0.01	< 0.01	< 0.01	< 0.01	0.04
38: 105009	53.0	0.14	45.2	0.03	0.02	< 0.01	< 0.01	< 0.01	0.06
39: 105010	56.5	0.20	40.8	0.02	0.02	< 0.01	< 0.01	< 0.01	0.07

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
16: 104987	0.04	0.02	< 0.01	2.30	100.6	0.06	0.06	24.0	33.2
17: 104988	0.03	0.01	< 0.01	1.40	100.7	0.04	< 0.05	28.1	38.8
18: 104989	0.03	0.01	< 0.01	3.05	100.7	0.08	0.08	28.2	39.0
19: 104990	0.04	0.01	< 0.01	3.28	100.2	0.40	0.40	27.7	38.2
20: 104991	0.09	0.02	0.01	3.90	99.4	0.44	0.07	7.4	10.2
21: 104992	0.10	0.02	0.01	6.63	99.5	0.03	< 0.05	0.5	0.7
22: 104993	0.07	0.01	< 0.01	5.45	99.3	0.21	0.21	21.6	29.8
23: 104994	0.09	0.02	0.02	4.80	100.1	< 0.01	< 0.05	0.6	0.9
24: 104995	0.08	0.01	0.02	5.78	100.2	0.68	0.68	3.3	4.6
25: 104996	0.08	< 0.01	< 0.01	9.15	99.4	0.35	0.35	20.3	28.0
26: 104997	0.06	< 0.01	< 0.01	4.58	100.0	0.22	0.22	26.9	37.1
27: 104998	0.07	0.03	0.01	4.30	99.1	0.64	0.63	17.2	23.7
28: 104999	0.08	0.02	0.02	7.72	99.2	0.36	0.36	0.4	0.5
29: 105000	0.06	0.01	< 0.01	6.06	99.6	0.39	0.39	18.2	25.2
30: 105001	0.04	0.02	< 0.01	7.29	100.2	0.14	0.14	23.3	32.2
31: 105002	0.08	< 0.01	< 0.01	18.9	100.4	0.24	0.24	0.7	1.0
32: 105003	0.07	0.01	< 0.01	18.6	100.6	0.26	0.26	0.6	0.9
33: 105004	0.06	< 0.01	< 0.01	14.8	100.4	0.07	0.07	5.9	8.2
34: 105005	0.08	0.01	< 0.01	18.5	99.7	0.40	0.40	0.9	1.3
35: 105006	0.12	0.04	0.02	10.9	100.5	0.08	0.08	0.3	0.4
36: 105007	0.13	0.04	0.03	10.9	100.5	0.06	0.06	0.4	0.6
37: 105008	0.01	< 0.01	< 0.01	2.69	100.0	< 0.01	---	2.7	3.7
38: 105009	< 0.01	0.01	< 0.01	2.24	100.7	0.01	---	5.0	6.9
39: 105010	< 0.01	< 0.01	< 0.01	2.61	100.2	< 0.01	---	4.9	6.8

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**LR Report : CA03060-DEC11**

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
40: 105011	44.2	0.21	53.3	0.02	< 0.01	< 0.01	< 0.01	< 0.01	0.09
41: 105012	54.9	0.22	41.6	0.03	0.02	< 0.01	< 0.01	< 0.01	0.08
42: 105013	46.0	0.09	51.6	0.02	< 0.01	< 0.01	< 0.01	< 0.01	0.05
43: 105014	44.1	1.87	51.4	0.02	0.02	< 0.01	< 0.01	0.10	0.03
44: 105015	46.1	3.38	44.0	0.15	0.04	< 0.01	0.01	0.20	0.04
45: 105016	56.9	14.3	10.9	1.72	2.30	3.20	2.04	0.54	0.18

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
40: 105011	< 0.01	< 0.01	< 0.01	2.78	100.6	< 0.01	---	3.3	4.5
41: 105012	< 0.01	0.01	< 0.01	3.12	100.0	< 0.01	---	2.4	3.3
42: 105013	< 0.01	< 0.01	< 0.01	3.18	101.0	< 0.01	---	3.4	4.7
43: 105014	< 0.01	0.02	0.01	2.96	100.5	< 0.01	---	4.4	6.1
44: 105015	0.01	0.02	< 0.01	7.03	101.0	< 0.01	---	0.3	0.4
45: 105016	0.13	0.02	0.02	7.39	99.6	0.15	0.15	0.3	0.4

Control Quality Analysis - Not suitable for commercial exchange




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April Rice  
Project Coordinator

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November 30, 2011

**Date Rec. :** 24 October 2011  
**LR Report :** CA03100-OCT11  
**Client Ref :** 144379 to 144447 Mag  
portion of CA02843-OCT11

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
1-BLK: Sud-Sampl	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr
2: 144379	8.10	< 0.01	93.2	0.28	0.18	< 0.01	< 0.01	< 0.01	0.04	0.01	0.03	< 0.01	-1.03	100.8
3: 144380	8.89	< 0.01	92.9	0.26	0.11	< 0.01	0.02	< 0.01	0.03	< 0.01	0.02	< 0.01	-1.85	100.4
4: 144381	10.3	0.03	90.5	0.45	0.16	< 0.01	0.01	0.01	0.04	0.03	0.01	< 0.01	-0.76	100.8
5: 144382	7.91	< 0.01	93.1	0.31	0.21	0.01	< 0.01	< 0.01	0.05	0.02	0.02	< 0.01	-1.36	100.3
6: 144383	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
7: 144384	3.86	0.01	98.7	0.09	0.06	< 0.01	< 0.01	< 0.01	0.04	0.01	0.09	< 0.01	-1.71	101.1
8: 144385	4.39	< 0.01	97.9	0.14	0.18	< 0.01	< 0.01	< 0.01	0.03	< 0.01	0.04	< 0.01	-1.95	100.7
9: 144386	4.47	0.02	92.8	0.63	0.27	0.01	0.01	< 0.01	0.02	0.05	0.20	< 0.01	1.38	99.9
10: 144387	4.48	0.04	92.6	0.76	0.30	< 0.01	< 0.01	< 0.01	0.03	0.06	0.11	< 0.01	2.78	101.2
11: 144388	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
12: 144389	5.27	0.05	93.3	0.88	0.09	0.02	0.02	0.01	0.02	0.14	0.37	0.01	1.10	101.3
13: 144390	4.57	0.06	94.8	0.65	0.11	0.02	0.02	0.03	0.02	0.08	0.26	< 0.01	0.79	101.4
14: 144391	4.11	0.01	92.7	0.33	0.15	< 0.01	0.02	< 0.01	0.03	0.02	0.10	< 0.01	2.41	99.9
15: 144392	4.53	< 0.01	94.6	0.42	0.16	< 0.01	< 0.01	< 0.01	0.04	0.03	0.18	< 0.01	0.79	100.8
16: 144393	5.32	0.02	90.1	1.02	0.37	< 0.01	< 0.01	< 0.01	0.04	0.08	0.18	< 0.01	2.78	99.9
17: 144394	6.07	0.08	91.0	0.84	0.09	0.02	0.02	0.04	0.03	0.13	0.16	< 0.01	1.89	100.4
18: 144395	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
19: 144396	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
20: 144397	8.70	< 0.01	93.0	0.17	0.06	< 0.01	0.01	< 0.01	0.03	< 0.01	0.03	< 0.01	-1.33	100.7
21: 144398	7.77	0.02	93.1	0.16	0.07	< 0.01	< 0.01	< 0.01	0.03	0.02	0.06	< 0.01	-1.24	100.0
22: 144399	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
23: 144400	4.96	0.07	92.6	0.56	0.20	0.02	0.01	0.02	0.03	0.07	0.23	< 0.01	2.71	101.5
24: 144401	4.07	0.03	98.0	0.14	0.13	< 0.01	< 0.01	< 0.01	0.04	0.01	0.07	< 0.01	-1.96	100.6
25: 144402	4.32	0.05	96.7	0.27	0.22	< 0.01	< 0.01	< 0.01	0.04	0.02	0.04	< 0.01	-1.63	100.1
26: 144403	5.49	0.08	94.3	0.42	0.35	< 0.01	0.02	< 0.01	0.06	0.02	0.10	< 0.01	-0.57	100.3
27: 144404	12.5	0.09	86.0	1.09	0.70	< 0.01	0.04	0.01	0.05	0.03	0.06	< 0.01	-0.15	100.5
28: 144405	---	---	---	---	---	---	---	---	---	---	---	---	---	---
29: 144406	14.5	0.07	85.4	0.64	0.16	< 0.01	0.02	0.02	0.05	0.04	0.02	< 0.01	-0.20	100.7
30: 144407	11.1	0.07	89.3	0.70	0.26	< 0.01	0.03	< 0.01	0.05	0.03	0.03	< 0.01	-1.17	100.3
31: 144408	9.43	0.04	91.3	0.71	0.27	< 0.01	0.03	0.01	0.07	0.02	0.02	< 0.01	-1.40	100.6
32: 144409	8.30	0.05	93.4	0.47	0.17	< 0.01	0.02	0.01	0.07	0.03	0.04	< 0.01	-1.34	101.2
33: 144410	10.5	0.23	89.5	0.58	0.18	0.01	0.03	0.05	0.06	0.04	0.10	< 0.01	-0.63	100.7
34: 144411	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
35: 144412	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr
36: 144413	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr

Online LIMS





SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA03100-OCT11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %
37: 144414	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr
38: 144415	---	---	---	---	---	---	---	---	---	---	---	---	---	---
39: 144416	16.1	0.27	83.1	0.63	0.77	< 0.01	0.05	0.02	0.06	0.03	0.04	< 0.01	-0.99	100.1
40: 144417	---	---	---	---	---	---	---	---	---	---	---	---	---	---
41: 144418	13.9	0.03	86.6	0.56	0.20	< 0.01	0.01	< 0.01	0.05	< 0.01	< 0.01	< 0.01	-1.92	99.5
42: 144419	10.6	0.02	90.8	0.38	0.15	< 0.01	0.01	< 0.01	0.05	< 0.01	0.02	< 0.01	-2.11	99.9
43: 144420	7.97	0.05	93.6	0.42	0.14	0.01	0.02	0.02	0.06	0.01	0.02	< 0.01	-1.74	100.5
44: 144421	8.56	0.01	93.1	0.38	0.14	0.02	< 0.01	< 0.01	0.04	0.01	0.01	< 0.01	-1.26	101.0
45: 144422	5.70	0.06	90.1	1.31	0.28	< 0.01	< 0.01	0.02	0.06	0.15	0.14	< 0.01	2.67	100.5
46: 144423	6.24	0.06	90.1	1.01	0.09	0.01	< 0.01	0.02	0.02	0.16	0.13	< 0.01	3.48	101.3
47: 144424	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss	---nss
48: 144425	2.47	0.03	96.5	0.18	0.19	< 0.01	< 0.01	< 0.01	0.05	0.03	0.20	< 0.01	-0.95	98.7
49: 144426	8.64	0.22	93.0	0.10	0.05	< 0.01	< 0.01	< 0.01	0.03	0.01	0.03	< 0.01	-1.06	101.0
50-BLK: Sud-Sam	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr	---nsr
51: 144427	7.03	0.02	95.4	0.02	0.03	< 0.01	< 0.01	< 0.01	0.03	< 0.01	0.02	< 0.01	-1.85	100.7
52: 144428	6.51	0.05	96.0	0.08	0.06	< 0.01	< 0.01	< 0.01	0.03	0.01	0.03	< 0.01	-1.78	101.0
53: 144429	7.83	0.03	93.9	0.08	0.03	< 0.01	< 0.01	< 0.01	0.02	0.01	0.05	< 0.01	-1.54	100.4
54: 144430	7.17	< 0.01	95.9	0.10	0.05	< 0.01	< 0.01	< 0.01	0.02	< 0.01	0.02	< 0.01	-2.02	101.3
55: 144431	6.54	< 0.01	96.1	0.15	0.11	< 0.01	< 0.01	< 0.01	0.02	0.01	0.02	< 0.01	-2.00	101.0
56: 144432	6.47	< 0.01	96.2	0.12	0.18	< 0.01	< 0.01	0.01	0.01	< 0.01	0.04	< 0.01	-2.37	100.7
57: 144433	7.07	< 0.01	95.4	0.23	0.07	< 0.01	< 0.01	< 0.01	0.03	< 0.01	0.01	< 0.01	-2.34	100.4
58: 144434	9.81	< 0.01	92.4	0.43	0.09	< 0.01	< 0.01	< 0.01	0.02	< 0.01	0.01	< 0.01	-2.00	100.8
59: 144435	8.10	0.03	94.5	0.39	0.17	< 0.01	< 0.01	< 0.01	0.03	0.02	0.03	< 0.01	-2.13	101.1
60: 144436	7.10	< 0.01	95.8	0.17	0.10	< 0.01	< 0.01	< 0.01	0.02	< 0.01	0.01	< 0.01	-2.19	101.0
61: 144437	---	---	---	---	---	---	---	---	---	---	---	---	---	---
62: 144438	4.56	0.02	98.2	0.05	0.05	< 0.01	< 0.01	< 0.01	0.03	0.01	0.03	< 0.01	-1.91	101.0
63: 144439	7.69	< 0.01	94.7	0.17	0.11	< 0.01	< 0.01	< 0.01	0.02	0.01	0.04	< 0.01	-1.98	100.8
64: 144440	4.50	0.01	98.2	0.03	0.04	0.01	< 0.01	< 0.01	0.02	0.02	0.02	< 0.01	-2.08	100.8
65: 144441	---	---	---	---	---	---	---	---	---	---	---	---	---	---
66: 144442	4.59	< 0.01	98.1	0.10	0.09	0.01	< 0.01	0.01	0.03	< 0.01	0.06	< 0.01	-1.98	101.0
67: 144443	---	---	---	---	---	---	---	---	---	---	---	---	---	---
68: 144444	7.17	0.09	93.5	0.54	0.22	< 0.01	0.03	0.02	0.05	0.02	0.02	< 0.01	-1.35	100.3
69: 144445	9.07	0.16	88.9	0.87	0.25	0.01	0.02	0.03	0.05	0.05	0.07	< 0.01	0.98	100.5
70: 144446	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss
71: 144447	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss	--nss
72-DUP: 144397	8.56	< 0.01	93.5	0.17	0.05	< 0.01	< 0.01	< 0.01	0.03	< 0.01	0.03	< 0.01	-1.24	101.1
74-REP: 144427	7.14	0.02	96.0	0.01	0.03	< 0.01	< 0.01	< 0.01	0.03	< 0.01	0.02	< 0.01	-1.85	101.4
75-DUP: 144436	7.14	< 0.01	95.7	0.16	0.10	< 0.01	< 0.01	< 0.01	0.02	< 0.01	0.01	< 0.01	-2.17	101.0

Control Quality Analysis - Not suitable for commercial exchange



April Rice  
Project Coordinator

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## Rogue Resources

Attn : Freeman Smith

Suite 202, 200 Granville Square, Vancouver

, V6C 1S4

Phone: 604-629-1808, Fax:604-229-0481

November 2, 2011

**Date Rec. :** 22 September 2011

**LR Report :** CA03180-SEP11

**Client Ref :** 144001 to 144049

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	Feed g	Mag g	Non Mag g
1-BLK: Sud-Sample P	20.03	< .01	20.03
2: 144001	20.06	3.74	16.32
3: 144002	20.04	2.17	17.87
4: 144003	20.04	0.18	19.86
5: 144004	20.04	3.75	16.29
6: 144005	20.09	4.60	15.49
7: 144006	20.05	1.55	18.50
8: 144007	20.06	0.05	20.01
9: 144008	20.07	0.01	20.06
10: 144009	20.10	0.13	19.97
11: 144010	20.10	0.69	19.41
12: 144011	20.11	0.31	19.80
13: 144012	20.08	0.41	19.67
14: 144013	20.05	2.38	17.67
15: 144014	20.04	6.73	13.31
16: 144015	20.07	0.01	20.06
17: 144016	20.04	6.98	13.06
18: 144017	20.03	< .01	20.03
19: 144018	20.08	7.10	12.98
20: 144019	20.06	3.41	16.65
21: 144020	20.06	3.21	16.85
22: 144021	20.05	6.45	13.60
23: 144022	20.04	1.55	18.49
24: 144023	20.11	3.10	17.01
25: 144024	20.09	2.76	17.33
26: 144025	20.03	0.08	19.95
27: 144026	20.07	0.01	20.06
28: 144027	20.09	3.17	16.92
29: 144028	20.11	6.87	13.24



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Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA03180-SEP11

Sample ID	Feed g	Mag g	Non Mag g
30: 144029	20.12	6.67	13.45
31: 144030	20.05	6.97	13.08
32: 144031	20.06	9.05	11.01
33: 144032	20.07	7.85	12.22
34: 144033	20.11	8.01	12.10
35: 144034	20.09	7.86	12.23
36: 144035	20.03	8.82	11.21
37: 144036	20.09	8.37	11.72
38: 144037	20.04	8.34	11.70
39: 144038	20.06	6.32	13.74
40: 144039	20.05	1.45	18.60
41: 144040	20.03	< .01	20.03
42: 144041	20.06	0.36	19.70
43: 144042	20.02	< .01	20.02
44: 144043	20.11	< .01	20.11
45: 144044	20.09	< .01	20.09
46: 144045	20.04	< .01	20.04
47: 144046	20.09	< .01	20.09
48: 144047	20.10	< .01	20.10
49: 144048	20.05	< .01	20.05
50-BLK: Sud-Sample	20.04	< .01	20.04
51: 144049	20.04	< .01	20.04
52-DUP: 144019	20.06	3.40	16.66
53-DUP: 144039	20.05	1.49	18.56

Control Quality Analysis - Not suitable for commercial exchange

April Rice  
Project Coordinator

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**Rogue Resources**  
Attn : Freeman Smith

Suite 202, 200 Granville Square, Vancouver  
, V6C 1S4  
Phone: 604-629-1808, Fax:604-229-0481

November 22, 2011

**Date Rec. :** 22 September 2011  
**LR Report :** CA03181-SEP11  
**Client Ref :** 144050 to 144061

## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Feed g	Mag g	Non Mag g
1-BLK: Sud-Sample Prep BLK	20.02	< .01	20.02
2: 144050	20.06	0.20	19.86
3: 144051	20.04	0.05	19.99
4: 144052	20.09	0.11	19.98
5: 144053	20.08	0.01	20.07
6: 144054	20.06	0.08	19.98
7: 144055	20.05	0.01	20.04
8: 144056	20.04	1.43	18.61
9: 144057	20.07	3.76	16.31
10: 144058	20.03	0.29	19.74
11: 144059	20.04	0.24	19.80
12: 144060	20.08	< .01	20.08
13: 144061	20.08	0.01	20.07

  
\_\_\_\_\_  
April Rice  
Project Coordinator

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**Rogue Resources**  
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Suite 202, 200 Granville Square  
Vancouver, BC  
V6C 1S4,

Phone: 604-629-1808  
Fax:604-229-0481

September 23, 2011

**Date Rec. :** 25 August 2011  
**LR Report :** CA03264-AUG11

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	Cu g/t	Ni g/t	Weight g
1: Samples 12901	1360	48	1900
2: Samples 12902	847	56	3924
3: Samples 12903	597	49	2970
4: Samples 12904	414	26	2625
5: Samples 12905	754	100	3231
6: Samples 12906	548	42	3291
7: Samples 12907	944	50	4714

Control Quality Analysis - Not suitable for commercial exchange



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April Rice  
Project Coordinator

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**Rogue Resources**  
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V6C 1S4,

Phone: 604-629-1808  
Fax:604-229-0481

September 6, 2011

**Date Rec. :** 25 August 2011  
**LR Report :** CA03265-AUG11

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	Au met g/t	Au +150 g/t	+150 wt g	Au -150 A g/t	Au -150 B g/t	total wt g	Au -150 Average g/t
1: Sample 12901+/-150 A&B	0.03	0.04	17.43	0.03	0.03	500.8	0.03
2: Sample 12902+/-150 A&B	0.04	0.02	20.89	0.03	0.05	501.4	0.04
3: Sample 12903+/-150 A&B	0.03	0.02	28.72	0.03	0.03	498.9	0.03
4: Sample 12904+/-150 A&B	< 0.02	0.00	22.76	0.01	0.01	500.2	0.01
5: Sample 12905+/-150 A&B	0.02	0.03	32.18	0.02	0.02	500.0	0.02
6: Sample 12906+/-150 A&B	0.02	0.02	31.13	0.03	0.02	501.3	0.02
7: Sample 12907+/-150 A&B	0.02	0.02	36.96	0.02	0.03	499.9	0.02

Control Quality Analysis - Not suitable for commercial exchange




---

April Rice  
Project Coordinator

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Lakefield - Ontario - KOL 2HO

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### Rogue Resources

Attn : Freeman Smith

Suite 202, 200 Granville Square, Vancouver  
, V6C 1S4

Phone: 604-629-1808, Fax:604-229-0481

January 5, 2012

Date Rec. : 21 November 2011

LR Report : CA03294-NOV11

Client Ref : 104816 - 104868

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
1-BLK: Sud-Sample	50.9	12.5	7.79	11.9	12.0	1.17	0.37	0.28	0.02	0.15	0.14	0.04	2.82	100.0	0.04	< 0.05	1.2	1.7
2: 104816	64.1	0.91	26.4	2.27	0.65	0.02	0.19	0.03	0.13	0.12	0.02	< 0.01	4.37	99.2	1.25	1.04	8.7	12.0
3: 104817	69.6	0.70	23.4	1.86	0.42	0.02	0.17	0.03	0.07	0.10	0.02	< 0.01	4.07	100.4	1.30	1.23	8.0	11.0
4: 104818	52.7	1.34	33.3	2.77	1.88	0.06	0.35	0.06	0.15	0.12	0.02	< 0.01	5.98	98.8	0.84	0.66	12.2	16.9
5: 104819	51.1	1.41	32.9	2.70	1.38	0.03	0.36	0.05	0.10	0.09	0.01	< 0.01	9.47	99.5	1.13	1.01	9.3	12.8
6: 104820	63.0	11.5	9.54	1.17	1.10	0.10	3.59	0.42	0.11	0.07	0.01	< 0.01	8.64	99.2	4.57	4.33	0.9	1.3
7: 104821	58.0	3.32	21.7	2.30	4.17	0.07	0.23	0.12	0.11	0.15	0.02	< 0.01	7.17	97.3	1.57	1.42	1.2	1.7
8: 104822	55.4	2.33	27.0	2.27	2.51	0.17	0.48	0.10	0.13	0.09	< 0.01	< 0.01	7.56	98.1	0.79	0.71	5.3	7.3
9: 104823	43.4	2.21	37.3	2.84	2.24	0.21	0.57	0.08	0.21	0.07	< 0.01	< 0.01	9.63	98.8	0.67	0.62	9.6	13.3
10: 104824	25.5	6.60	49.5	2.74	3.09	1.10	0.70	0.62	0.10	0.11	0.04	0.03	9.38	99.5	19.1	16.3	8.3	11.5
11: 104825	54.4	1.85	29.8	2.13	1.35	0.16	0.42	0.06	0.12	0.04	0.01	< 0.01	8.44	98.7	0.45	0.42	5.9	8.2
12: 104826	50.1	1.45	36.3	2.84	2.16	0.12	0.42	0.05	0.20	0.06	< 0.01	< 0.01	5.53	99.2	0.38	0.35	14.7	20.3
13: 104827	55.7	0.77	34.3	1.80	1.73	0.09	0.27	0.02	0.21	0.03	< 0.01	< 0.01	4.77	99.8	0.21	0.16	15.8	21.8
14: 104828	25.1	0.64	56.9	3.09	3.20	0.10	0.29	0.02	0.26	0.04	< 0.01	< 0.01	9.98	99.6	0.29	0.28	26.4	36.5
15: 104829	50.1	1.31	37.2	2.15	1.75	0.16	0.46	0.04	0.19	0.04	< 0.01	< 0.01	6.03	99.4	0.20	0.16	15.6	21.5
16: 104830	51.1	0.78	37.7	2.74	1.37	0.07	0.22	0.02	0.27	0.07	< 0.01	< 0.01	5.65	99.9	0.64	0.50	15.1	20.8
17: 104831	51.6	0.44	38.5	2.93	1.32	0.05	0.22	< 0.01	0.29	0.08	< 0.01	< 0.01	4.50	100.0	0.47	0.42	16.6	23.0
18: 104832	51.1	2.43	33.9	2.39	0.88	0.14	0.25	0.08	0.13	0.13	< 0.01	< 0.01	7.27	98.7	3.73	3.85	9.0	12.5
19: 104833	50.2	3.83	34.1	2.36	0.44	0.08	0.15	0.13	0.08	0.15	< 0.01	< 0.01	7.24	98.8	5.89	5.72	6.3	8.7
20: 104834	67.8	0.60	24.0	1.93	0.64	0.06	0.20	0.02	0.05	0.08	0.01	< 0.01	4.31	99.7	0.75	0.63	8.7	12.0
21: 104835	59.4	1.88	28.8	2.25	0.68	0.13	0.33	0.09	0.09	0.11	< 0.01	< 0.01	5.30	99.1	2.54	2.54	8.0	11.0
22: 104836	59.7	1.87	28.7	2.29	0.67	0.12	0.31	0.10	0.09	0.10	< 0.01	< 0.01	5.24	99.2	2.37	2.17	8.0	11.0
23: 104837	55.5	1.05	36.9	2.88	1.23	0.02	0.32	0.04	0.20	0.12	0.01	< 0.01	2.49	100.8	0.37	0.33	16.6	23.0
24: 104838	53.7	0.33	39.7	2.80	1.03	0.02	0.16	< 0.01	0.18	0.10	< 0.01	< 0.01	1.58	99.6	0.13	0.12	19.8	27.3
25: 104839	86.0	1.21	0.85	2.55	3.51	0.29	0.15	0.04	0.01	0.02	0.04	< 0.01	4.28	99.0	< 0.01	< 0.05	0.8	1.1
26: 104840	58.9	14.9	7.41	3.25	3.82	2.76	2.08	0.66	0.32	0.06	0.01	0.02	4.64	98.9	0.03	< 0.05	0.7	1.0
27: 104841	49.7	0.47	42.3	3.02	1.23	0.02	0.19	0.02	0.21	0.11	< 0.01	< 0.01	1.88	99.1	0.16	0.15	20.8	28.7
28: 104842	51.3	1.72	38.3	3.21	1.84	0.07	0.42	0.07	0.22	0.11	< 0.01	< 0.01	2.60	99.9	0.24	0.22	18.0	24.9
29: 104843	49.4	0.59	43.7	3.03	1.24	0.05	0.25	0.02	0.20	0.11	< 0.01	< 0.01	1.75	100.3	0.24	0.23	21.1	29.2
30: 104844	57.0	0.19	37.5	2.68	1.14	< 0.01	0.10	< 0.01	0.13	0.10	< 0.01	< 0.01	1.23	100.0	0.50	0.44	18.5	25.5
31: 104845	50.0	8.31	21.5	5.96	4.67	0.64	0.11	0.55	0.28	0.12	0.05	0.02	6.07	98.3	0.30	0.27	5.9	8.2
32: 104846	52.5	0.47	40.5	2.86	1.14	0.02	0.15	0.02	0.13	0.11	< 0.01	< 0.01	1.92	99.8	0.16	0.15	20.7	28.6
33: 104847	54.7	3.36	31.8	3.29	1.65	0.46	0.27	0.16	0.18	0.13	0.02	< 0.01	4.76	100.7	0.72	0.67	12.3	17.0
34: 104848	91.2	1.12	0.73	1.62	2.15	0.28	0.14	0.03	< 0.01	0.01	0.03	< 0.01	3.13	100.5	< 0.01	< 0.05	0.9	1.3
35: 104849	57.0	0.53	32.9	2.30	0.82	0.07	0.22	< 0.01	0.10	0.13	< 0.01	< 0.01	6.01	100.1	0.44	0.37	13.6	18.8
36: 104850	50.0	0.13	46.2	1.78	0.86	0.01	0.08	< 0.01	0.17	0.04	< 0.01	< 0.01	0.87	100.1	0.13	0.10	26.5	36.6
37: 104851	48.1	0.15	47.9	1.68	0.95	0.01	0.07	< 0.01	0.15	0.03	< 0.01	< 0.01	0.36	99.4	0.06	0.06	28.2	39.0

Online LIMS



**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

**LR Report : CA03294-NOV11**

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
38: 104852	45.6	0.09	49.8	1.44	0.97	< 0.01	0.05	< 0.01	0.13	0.04	< 0.01	< 0.01	0.84	99.0	0.08	0.08	31.0	42.8
39: 104853	56.5	9.31	18.5	3.31	2.63	0.17	1.20	0.47	0.26	0.10	0.01	0.02	4.81	97.3	2.29	2.25	2.2	3.0
40: 104854	46.0	0.12	49.6	1.49	0.99	< 0.01	0.05	< 0.01	0.12	0.04	< 0.01	< 0.01	0.66	99.1	0.20	0.18	30.5	42.1
41: 104855	41.6	0.14	55.4	1.29	0.75	0.02	0.06	< 0.01	0.08	0.03	< 0.01	< 0.01	0.66	100.1	0.07	0.07	38.2	52.8
42: 104856	54.4	0.51	33.4	2.38	0.55	0.03	0.12	0.02	0.07	0.12	0.01	< 0.01	7.22	98.8	3.11	3.11	14.0	19.3
43: 104857	8.14	0.97	87.3	0.02	0.04	0.02	0.03	0.04	0.12	1.04	< 0.01	< 0.01	3.07	100.8	0.04	< 0.05	2.9	4.0
44: 104858	60.1	0.82	27.3	1.85	0.53	0.03	0.07	0.03	0.02	0.17	0.01	< 0.01	9.04	99.9	7.39	7.01	5.2	7.2
45: 104859	40.2	0.16	45.9	3.38	1.58	0.02	0.07	< 0.01	0.10	0.11	< 0.01	< 0.01	8.43	100.0	0.17	0.17	20.1	27.8
46: 104860	46.4	0.29	41.2	2.21	1.65	0.03	0.10	< 0.01	0.12	0.08	0.01	< 0.01	7.61	99.6	0.30	0.27	18.8	26.0
47: 104861	51.7	0.36	36.3	2.66	0.86	0.04	0.13	0.02	0.06	0.17	< 0.01	< 0.01	7.38	99.7	0.45	0.39	14.5	20.0
48: 104862	51.6	0.54	37.0	1.78	1.47	0.03	0.10	0.03	0.06	0.17	0.01	< 0.01	5.50	98.3	4.58	4.50	16.2	22.3
49: 104863	55.7	0.55	32.9	1.64	1.33	0.03	0.11	0.03	0.05	0.17	0.02	< 0.01	5.69	98.2	4.77	4.47	13.5	18.7
50-BLK: Sud-Sampl	51.9	12.7	7.54	11.7	11.9	1.50	0.29	0.42	0.02	0.15	0.12	0.03	2.71	101.0	0.05	< 0.05	0.7	1.0
51: 104864	44.3	7.79	25.9	6.05	5.05	1.22	0.04	0.48	0.28	0.11	0.04	0.02	7.76	99.1	0.22	0.16	11.1	15.3
52: 104865	46.6	0.30	49.4	1.47	0.88	< 0.01	0.03	0.01	0.09	0.04	< 0.01	< 0.01	0.61	99.4	0.08	0.08	32.8	45.3
53: 104866	47.5	0.37	46.7	1.94	0.90	0.02	0.10	0.08	0.09	0.04	0.01	< 0.01	1.94	99.7	0.12	0.11	26.7	36.9
54: 104867	53.1	2.63	30.5	2.70	1.37	0.08	0.21	0.13	0.03	0.13	0.01	< 0.01	8.18	99.0	0.60	0.47	6.7	9.2
55: 104868	58.3	17.4	8.62	2.13	1.88	2.13	2.97	0.76	0.11	0.08	0.02	0.02	3.98	98.4	1.31	0.72	0.9	1.2
56-DUP: 104834	67.6	0.60	23.9	1.93	0.65	0.06	0.20	0.01	0.04	0.07	0.01	< 0.01	4.23	99.4	0.76	0.70	8.7	12.0
57-DUP: 104854	46.5	0.11	50.0	1.51	1.01	< 0.01	0.04	< 0.01	0.12	0.04	< 0.01	< 0.01	0.56	99.9	0.20	0.18	30.4	42.0
58-REP: 104864	44.2	7.81	25.6	6.03	5.04	1.23	0.04	0.48	0.28	0.11	0.05	0.02	7.78	98.7	0.24	0.16	11.0	15.2

Control Quality Analysis - Not suitable for commercial exchange




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Project Coordinator

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Rogue Resources

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November 30, 2011

Date Rec. : 27 October 2011

LR Report : CA03399-OCT11

Client Ref : 144448 to 144500, 104751 to 104768

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
1-BLK: Sud-Sample	52.0	11.7	8.09	12.4	11.0	1.08	0.20	0.26	0.02
2: 144448	52.6	3.75	24.8	2.12	1.84	0.16	0.86	0.15	0.12
3: 144449	50.2	1.08	33.3	1.86	1.61	0.10	0.04	0.03	0.16
4: 144450	45.2	2.44	30.5	2.35	1.99	0.21	0.55	0.09	0.15
5: 144451	42.1	2.04	37.1	2.34	2.13	0.15	0.09	0.07	0.20
6: 144452	48.2	1.04	37.1	1.71	1.14	< 0.01	0.02	0.04	0.19
7: 144453	49.1	1.13	33.7	1.71	1.59	0.02	0.02	0.04	0.16
8: 144454	47.4	0.87	37.6	1.81	1.50	0.03	0.05	0.04	0.20
9: 144455	83.5	1.18	0.74	3.31	4.46	0.31	0.16	0.04	< 0.01
10: 144456	48.2	0.84	38.4	2.12	0.51	0.09	0.31	0.04	0.11
11: 144457	49.8	0.53	42.5	1.78	0.81	0.07	0.21	0.02	0.11
12: 144458	51.6	0.69	41.3	1.77	0.78	0.08	0.24	0.02	0.15
13: 144459	54.8	2.57	34.8	2.11	0.46	0.16	0.39	0.10	0.09
14: 144460	51.4	0.44	43.2	1.77	0.78	0.04	0.18	0.01	0.11

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
1-BLK: Sud-Sample	0.16	0.14	0.05	2.77	100.0	0.06	0.06	0.6	0.9
2: 144448	0.07	0.01	< 0.01	12.7	99.2	1.12	1.02	1.3	1.8
3: 144449	0.04	0.01	< 0.01	11.7	100.1	0.60	0.54	7.0	9.7
4: 144450	0.08	0.02	< 0.01	15.6	99.2	1.11	1.04	2.0	2.7
5: 144451	0.04	< 0.01	< 0.01	13.1	99.3	0.39	0.36	7.8	10.8
6: 144452	0.02	0.02	< 0.01	9.91	99.4	0.55	0.44	11.7	16.2
7: 144453	0.05	0.02	< 0.01	11.2	98.8	0.42	0.36	7.2	10.0
8: 144454	0.04	< 0.01	< 0.01	9.46	99.1	0.47	0.39	12.4	17.2
9: 144455	< 0.01	0.03	< 0.01	5.84	99.6	0.01	< 0.05	0.9	1.2
10: 144456	0.08	< 0.01	< 0.01	8.88	99.6	1.82	1.74	11.1	15.3
11: 144457	0.04	< 0.01	< 0.01	3.94	99.8	0.41	0.39	19.6	27.0
12: 144458	0.06	< 0.01	< 0.01	2.88	99.6	0.56	0.50	19.2	26.5
13: 144459	0.07	< 0.01	< 0.01	4.09	99.7	1.63	1.45	11.2	15.5
14: 144460	0.05	< 0.01	< 0.01	1.94	99.9	0.50	0.38	21.7	30.0

Online LIMS



SGS Canada Inc.

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LR Report : CA03399-OCT11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
15: 144461	46.0	0.12	48.6	1.66	0.39	0.02	0.06	< 0.01	0.11
16: 144462	48.6	0.11	44.9	2.18	0.18	0.01	0.06	< 0.01	0.11
17: 144463	48.7	0.09	45.2	2.15	0.17	< 0.01	0.05	< 0.01	0.09
18: 144464	57.6	0.28	29.2	2.10	0.31	0.03	0.11	0.02	0.04
19: 144465	52.6	0.41	29.5	2.50	0.31	0.03	0.10	0.03	0.05
20: 144466	45.3	0.16	36.6	2.24	0.92	0.02	0.05	0.01	0.06
21: 144467	40.4	0.12	46.5	1.92	1.15	0.02	0.04	< 0.01	0.08
22: 144468	42.7	0.09	45.9	2.18	2.03	< 0.01	0.02	< 0.01	0.06
23: 144469	47.3	0.04	49.7	2.20	0.73	0.02	< 0.01	< 0.01	0.06
24: 144470	47.7	0.07	48.1	1.73	1.07	0.02	< 0.01	< 0.01	0.06
25: 144471	43.9	0.04	45.1	2.11	2.78	< 0.01	< 0.01	< 0.01	0.10
26: 144472	8.11	1.00	86.8	0.04	0.04	0.01	0.03	0.05	0.13
27: 144473	43.4	0.03	46.6	2.27	1.95	< 0.01	< 0.01	< 0.01	0.07
28: 144474	53.2	1.85	27.6	2.67	0.99	0.02	< 0.01	0.08	0.06
29: 144475	53.0	1.76	30.1	2.53	1.73	0.01	0.04	0.07	0.16
30: 144476	47.5	1.50	36.7	2.70	1.63	0.04	0.17	0.06	0.17
31: 144477	47.9	1.13	36.3	2.63	1.09	0.02	0.04	0.04	0.18
32: 144478	61.7	9.57	15.8	1.78	0.28	0.46	1.16	0.41	0.12
33: 144479	63.9	2.45	23.7	1.90	0.40	0.13	0.33	0.12	0.05
34: 144480	45.0	0.26	41.0	1.90	1.89	0.05	0.10	< 0.01	0.17
35: 144481	50.3	0.50	40.2	1.95	1.31	0.07	0.21	0.02	0.14
36: 144482	25.3	6.67	49.0	2.68	3.04	1.11	0.71	0.60	0.10
37: 144483	47.7	0.28	42.6	1.78	0.93	0.04	0.10	< 0.01	0.13
38: 144484	48.0	0.41	44.6	2.20	1.47	0.08	0.19	0.02	0.14

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
15: 144461	0.03	< 0.01	< 0.01	2.92	99.9	0.74	0.66	24.6	34.0
16: 144462	0.08	< 0.01	< 0.01	3.21	99.4	2.34	2.22	18.7	25.8
17: 144463	0.08	< 0.01	< 0.01	2.89	99.4	2.03	1.92	19.6	27.0
18: 144464	0.27	0.01	< 0.01	9.88	99.9	7.30	7.19	6.4	8.8
19: 144465	0.25	0.02	< 0.01	13.7	99.5	3.43	3.23	3.1	4.3
20: 144466	0.08	0.01	< 0.01	14.5	99.9	0.26	0.24	6.9	9.5
21: 144467	0.03	0.01	< 0.01	9.38	99.7	0.20	0.20	20.5	28.3
22: 144468	0.03	0.02	< 0.01	6.70	99.8	0.26	0.26	25.2	34.8
23: 144469	< 0.01	< 0.01	< 0.01	0.29	100.4	0.09	0.10	23.9	33.0
24: 144470	0.02	0.02	< 0.01	1.09	99.9	0.27	0.26	21.7	30.0
25: 144471	0.02	0.01	< 0.01	5.76	99.8	0.14	0.14	26.9	37.2
26: 144472	1.01	< 0.01	< 0.01	3.27	100.5	0.01	< 0.05	2.8	3.8
27: 144473	< 0.01	0.01	< 0.01	5.90	100.3	0.10	0.10	27.5	38.0
28: 144474	0.13	0.02	< 0.01	13.6	100.2	0.59	0.59	0.9	1.2
29: 144475	0.06	0.01	< 0.01	10.3	99.7	0.53	0.55	6.6	9.1
30: 144476	0.05	< 0.01	< 0.01	8.65	99.2	0.29	0.29	13.6	18.8
31: 144477	0.06	0.01	< 0.01	10.8	100.2	0.66	0.68	11.6	16.0
32: 144478	0.16	0.03	< 0.01	8.16	99.6	2.26	2.22	1.1	1.5
33: 144479	0.08	0.02	< 0.01	6.52	99.6	3.06	2.96	2.2	3.1
34: 144480	0.06	< 0.01	< 0.01	8.86	99.3	0.40	0.43	17.4	24.1
35: 144481	0.04	< 0.01	< 0.01	4.91	99.6	0.36	0.36	17.8	24.6
36: 144482	0.10	0.03	0.03	9.09	98.5	17.6	16.9	8.4	11.6
37: 144483	0.03	0.01	< 0.01	6.60	100.2	0.25	0.24	18.3	25.3
38: 144484	0.05	< 0.01	< 0.01	3.05	100.1	0.29	0.26	21.5	29.7

OnLine LIMS



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LR Report : CA03399-OCT11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
39: 144485	43.7	0.14	50.9	2.26	1.24	0.05	0.08	< 0.01	0.14
40: 144486	48.7	0.26	45.9	2.13	1.03	0.03	0.13	0.02	0.14
41: 144487	46.7	0.51	47.0	2.27	1.28	0.04	0.23	0.02	0.13
42: 144488	46.6	0.13	46.6	2.23	1.32	0.11	0.07	< 0.01	0.12
43: 144489	52.0	0.96	39.7	2.17	1.38	0.10	0.31	0.04	0.12
44: 144490	49.7	0.21	45.6	2.17	1.23	0.02	0.11	< 0.01	0.13
45: 144491	49.5	0.37	45.0	2.12	1.38	0.04	0.15	0.02	0.13
46: 144492	51.5	0.41	42.8	2.12	1.29	0.05	0.16	0.01	0.13
47: 144493	46.5	0.74	45.4	2.07	1.80	0.09	0.30	0.03	0.14
48: 144494	55.2	13.9	17.7	6.01	0.86	0.42	0.02	0.64	0.53
49: 144495	47.0	0.21	46.8	2.10	1.67	0.01	0.07	< 0.01	0.10
50-BLK: Sud-Sampl	52.2	13.6	7.25	11.1	11.8	1.64	0.32	0.27	0.02
51: 144496	46.6	0.12	48.0	2.53	1.21	0.03	0.07	< 0.01	0.10
52: 144497	47.6	0.21	48.4	1.83	1.03	0.02	0.08	< 0.01	0.09
53: 144498	45.1	0.06	53.0	1.19	0.84	< 0.01	0.03	< 0.01	0.08
54: 144499	83.6	1.13	0.71	3.42	4.67	0.26	0.15	0.03	0.01
55: 144500	49.9	0.12	47.0	1.68	0.96	0.02	0.07	< 0.01	0.09
56: 104751	45.0	0.25	49.9	1.64	1.75	0.03	0.08	< 0.01	0.09
57: 104752	43.4	0.29	50.0	2.12	1.78	0.03	0.08	0.02	0.08
58: 104753	42.7	0.10	54.4	1.97	0.93	0.03	< 0.01	< 0.01	0.08
59: 104754	46.2	0.09	50.4	1.85	0.83	0.04	< 0.01	< 0.01	0.07
60: 104755	47.7	2.99	40.6	3.15	1.76	1.71	0.08	0.16	0.21
61: 104756	48.1	0.06	48.9	2.45	0.37	0.03	< 0.01	< 0.01	0.08
62: 104757	51.8	0.18	40.7	1.80	1.41	0.01	< 0.01	< 0.01	0.08

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
39: 144485	0.04	< 0.01	< 0.01	1.81	100.4	0.04	< 0.05	25.7	35.5
40: 144486	0.05	< 0.01	< 0.01	1.21	99.6	0.29	0.31	22.4	31.0
41: 144487	0.05	< 0.01	< 0.01	1.39	99.6	0.27	0.28	23.2	32.1
42: 144488	0.05	< 0.01	< 0.01	3.06	100.3	0.12	0.12	22.0	30.4
43: 144489	0.08	< 0.01	< 0.01	2.70	99.5	1.02	1.02	16.8	23.2
44: 144490	0.03	< 0.01	< 0.01	1.10	100.3	0.11	0.12	23.2	32.0
45: 144491	0.03	< 0.01	< 0.01	1.43	100.2	0.18	0.16	22.9	31.6
46: 144492	0.04	< 0.01	< 0.01	1.49	100.0	0.18	0.16	20.5	28.3
47: 144493	0.08	< 0.01	< 0.01	2.19	99.3	0.51	0.50	22.7	31.3
48: 144494	0.02	0.04	0.02	4.09	99.4	0.02	< 0.05	0.7	1.0
49: 144495	0.04	< 0.01	< 0.01	1.05	99.1	0.77	0.73	23.9	33.0
50-BLK: Sud-Sampl	0.13	0.11	0.03	2.09	100.5	0.03	< 0.05	0.7	1.0
51: 144496	0.05	< 0.01	< 0.01	0.86	99.6	0.45	0.41	23.7	32.7
52: 144497	0.02	< 0.01	< 0.01	0.72	100.0	0.30	0.26	28.2	39.0
53: 144498	0.01	< 0.01	< 0.01	-0.02	100.3	0.06	< 0.05	34.6	47.8
54: 144499	< 0.01	0.02	< 0.01	6.86	100.9	0.02	< 0.05	0.8	1.1
55: 144500	0.01	< 0.01	< 0.01	0.66	100.4	0.20	0.20	28.2	39.0
56: 104751	< 0.01	< 0.01	< 0.01	1.62	100.4	0.14	0.13	31.9	44.0
57: 104752	0.01	< 0.01	< 0.01	1.65	99.5	0.47	0.45	32.1	44.3
58: 104753	< 0.01	0.01	< 0.01	0.20	100.4	0.11	0.10	29.7	41.0
59: 104754	0.01	0.02	< 0.01	0.14	99.7	0.06	0.06	28.2	39.0
60: 104755	0.01	0.02	< 0.01	1.84	100.3	0.06	< 0.05	20.6	28.5
61: 104756	< 0.01	0.02	< 0.01	-0.31	99.8	0.02	< 0.05	26.9	37.2
62: 104757	0.03	0.01	< 0.01	2.94	98.9	0.83	0.75	26.1	36.1

OnLine LIMS



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA03399-OCT11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
63: 104758	46.4	0.06	47.2	1.83	2.28	< 0.01	0.01	< 0.01	0.08
64: 104759	42.8	0.24	48.9	2.39	2.05	0.03	0.10	0.03	0.06
65: 104760	50.9	0.88	0.67	11.1	14.9	0.22	0.12	0.03	< 0.01
66: 104761	46.2	0.09	47.5	2.31	1.39	0.01	0.06	< 0.01	0.07
67: 104762	47.6	0.27	43.8	1.87	1.22	0.05	0.12	< 0.01	0.06
68: 104763	49.9	0.15	43.8	2.23	1.12	0.03	0.08	< 0.01	0.09
69: 104764	51.4	0.34	40.3	2.19	1.30	0.04	0.15	0.02	0.10
70: 104765	51.8	0.30	41.0	2.85	1.11	0.02	0.12	0.01	0.07
71: 104766	53.3	0.58	35.9	3.11	1.00	0.05	0.18	0.04	0.08
72: 104767	54.7	3.86	27.2	2.90	0.47	0.02	0.06	0.18	0.05
73: 104768	61.5	17.3	9.57	1.86	0.23	0.28	3.76	0.67	0.09
74-DUP: 144466	44.9	0.15	36.5	2.24	0.91	0.01	0.05	< 0.01	0.06
75-DUP: 144486	48.5	0.27	45.9	2.14	1.02	0.03	0.13	< 0.01	0.13
76-REP: 144496	46.9	0.16	47.4	2.51	1.21	0.03	0.07	0.01	0.10
77-DUP: 104755	47.6	3.00	40.5	3.11	1.75	1.67	0.08	0.17	0.22

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
63: 104758	< 0.01	< 0.01	< 0.01	1.89	99.8	0.11	0.10	32.9	45.5
64: 104759	0.02	< 0.01	< 0.01	3.42	100.1	0.07	0.08	31.0	42.8
65: 104760	0.03	0.03	< 0.01	21.2	100.1	0.01	< 0.05	0.9	1.3
66: 104761	0.02	< 0.01	< 0.01	2.75	100.4	0.04	< 0.05	26.3	36.3
67: 104762	0.03	< 0.01	< 0.01	4.99	100.0	0.25	0.25	24.0	33.1
68: 104763	0.03	< 0.01	< 0.01	2.20	99.7	0.05	0.05	25.1	34.7
69: 104764	0.06	< 0.01	< 0.01	4.04	99.9	0.20	0.20	18.0	24.9
70: 104765	0.09	0.01	< 0.01	3.22	100.6	0.16	0.17	18.4	25.4
71: 104766	0.11	< 0.01	< 0.01	5.44	99.7	0.66	0.62	13.7	18.9
72: 104767	0.13	0.01	< 0.01	9.14	98.7	2.80	2.73	2.9	4.0
73: 104768	0.03	0.02	0.02	3.94	99.3	1.08	0.93	0.6	0.8
74-DUP: 144466	0.08	0.02	< 0.01	14.6	99.5	0.26	0.23	7.0	9.6
75-DUP: 144486	0.04	< 0.01	< 0.01	1.28	99.4	0.30	0.30	22.4	31.0
76-REP: 144496	0.06	< 0.01	< 0.01	0.96	99.5	0.44	0.45	23.8	32.8
77-DUP: 104755	0.02	0.01	0.01	1.78	99.9	0.06	< 0.05	20.6	28.5

Control Quality Analysis - Not suitable for commercial exchange



\_\_\_\_\_  
 April Rice  
 Project Coordinator

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**Rogue Resources**  
Attn : Freeman Smith

Suite 202, 200 Granville Square, Vancouver  
, V6C 1S4  
Phone: 604-629-1808, Fax:604-229-0481

November 28, 2011

**Date Rec. :** 27 October 2011  
**LR Report :** CA03400-OCT11  
**Client Ref :** 12958 to 12993

## CERTIFICATE OF ANALYSIS

### Final Report

Sample ID	Au g/t
1-BLK: Sud-Sample Prep BLK	< 0.02
2: 12958	< 0.02
3: 12959	0.02
4: 12960	< 0.02
5: 12961	< 0.02
6: 12962	< 0.02
7: 12963	0.04
8: 12964	< 0.02
9: 12965	< 0.02
10: 12966	< 0.02
11: 12967	0.03
12: 12968	0.03
13: 12969	< 0.02
14: 12970	< 0.02
15: 12971	< 0.02
16: 12972	< 0.02
17: 12973	< 0.02
18: 12974	< 0.02
19: 12975	< 0.02
20: 12976	< 0.02
21: 12977	< 0.02
22: 12978	< 0.02
23: 12979	0.03
24: 12980	< 0.02
25: 12981	< 0.02
26: 12982	< 0.02
27: 12983	< 0.02



**SGS Canada Inc.**

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

**LR Report : CA03400-OCT11**

<b>Sample ID</b>	<b>Au g/t</b>
28: 12984	< 0.02
29: 12985	< 0.02
30: 12986	< 0.02
31: 12987	< 0.02
32: 12988	< 0.02
33: 12989	< 0.02
34: 12990	< 0.02
35: 12991	< 0.02
36: 12992	< 0.02
37: 12993	< 0.02
38-DUP: 12976	< 0.02

Control Quality Analysis - Not suitable for commercial exchange



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*April Rice*  
**Project Coordinator**

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SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

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Rogue Resources

Attn : Freeman Smith

Suite 202, 200 Granville Square, Vancouver  
, V6C 1S4

Phone: 604-629-1808, Fax:604-229-0481

October 27, 2011

Date Rec. : 27 September 2011

LR Report : CA03437-SEP11

Client Ref : 144073,144108,144144,144  
170,144192,144229,144267  
to 144318

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
1-BLK: Sud-Sample Prep BLK	50.5	12.3	7.75	12.5	13.1	1.05	0.19	0.24	0.02
2: 144073	8.13	0.97	86.9	0.04	0.04	0.02	0.03	0.05	0.12
3: 144108	25.4	6.72	50.2	2.71	3.09	1.07	0.72	0.61	0.10
4: 144144	8.08	0.97	86.6	0.02	0.04	0.02	0.03	0.05	0.13
5: 144170	25.6	6.79	50.4	2.74	3.12	1.09	0.71	0.60	0.10
6: 144192	8.05	0.97	86.9	0.02	0.04	< 0.01	0.03	0.05	0.13
7: 144229	25.3	6.70	50.2	2.68	3.06	1.09	0.72	0.60	0.09
8: 144257	8.09	0.96	86.9	0.01	0.03	0.02	0.03	0.05	0.13
9: 144267	49.2	0.56	42.5	1.62	0.52	0.04	0.19	0.03	0.13
10: 144268	49.9	1.46	41.9	1.82	0.85	0.07	0.25	0.07	0.17
11: 144269	56.4	1.92	34.3	2.01	0.86	0.10	0.25	0.10	0.19
12: 144270	47.3	4.17	39.3	3.46	1.34	0.20	0.45	0.28	0.33
13: 144271	49.4	0.52	44.3	2.16	0.56	0.02	0.21	0.02	0.15
14: 144272	50.3	0.51	40.9	2.22	0.80	< 0.01	0.14	0.03	0.16
15: 144273	71.3	1.61	19.2	1.74	0.22	0.03	0.19	0.09	0.10
16: 144274	75.4	0.85	18.1	1.36	0.14	0.04	0.13	0.04	0.08

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe %	Fe3O4 %
1-BLK: Sud-Sample Prep BLK	0.15	0.14	0.03	2.77	100.7	0.03	< 0.05	0.6	0.9
2: 144073	1.01	< 0.01	< 0.01	3.22	100.6	0.01	< 0.05	2.8	3.8
3: 144108	0.10	0.05	0.03	8.20	99.1	17.3	16.5	8.4	11.6
4: 144144	1.02	< 0.01	< 0.01	3.30	100.3	0.02	< 0.05	2.7	3.7
5: 144170	0.10	0.04	0.03	8.17	99.4	18.0	16.9	8.4	11.6
6: 144192	0.99	0.01	< 0.01	3.10	100.3	< 0.01	< 0.05	2.8	3.8
7: 144229	0.10	0.04	0.02	8.47	99.0	18.0	16.8	8.5	11.8
8: 144257	0.99	< 0.01	< 0.01	3.22	100.4	0.02	< 0.05	2.7	3.7
9: 144267	0.08	0.02	< 0.01	4.48	99.4	0.80	0.72	19.6	27.1
10: 144268	0.06	0.02	< 0.01	3.45	100.0	0.15	0.14	21.1	29.1
11: 144269	0.07	0.03	< 0.01	2.92	99.2	1.08	1.09	15.6	21.5
12: 144270	0.04	0.03	< 0.01	2.17	99.1	0.08	0.08	20.3	28.0
13: 144271	0.06	0.02	< 0.01	2.27	99.6	0.18	0.20	20.1	27.8
14: 144272	0.08	< 0.01	< 0.01	3.97	99.2	0.47	0.41	17.2	23.8
15: 144273	0.06	0.03	0.01	4.55	99.1	0.98	0.96	5.4	7.4
16: 144274	0.05	0.04	< 0.01	3.33	99.6	1.15	1.09	5.9	8.2

OnLine LIMS



SGS Canada Inc.

P.O. Box 4300 - 185 Concession St.

Lakefield - Ontario - KOL 2HO

Phone: 705-652-2000 FAX: 705-652-6365

LR Report : CA03437-SEP11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
17: 144275	50.6	0.30	40.9	2.61	0.29	< 0.01	0.15	0.01	0.11
18: 144276	52.0	0.94	37.5	1.88	0.57	0.03	0.20	0.04	0.12
19: 144277	25.0	6.65	50.1	2.67	3.06	1.07	0.71	0.60	0.09
20: 144278	52.7	0.76	34.6	1.77	0.23	0.02	0.19	0.03	0.08
21: 144279	57.9	2.08	29.6	1.70	0.21	0.02	0.24	0.08	0.08
22: 144280	58.0	0.47	36.7	1.40	0.30	0.02	0.13	0.15	0.17
23: 144281	54.2	0.40	40.5	1.52	0.23	0.03	0.19	0.01	0.12
24: 144282	59.4	15.2	9.32	3.21	0.87	4.09	1.87	0.66	0.33
25: 144283	48.1	1.62	42.8	2.22	1.63	0.26	0.20	0.07	0.15
26: 144284	58.0	1.17	31.5	2.00	0.36	0.04	0.44	0.04	0.05
27: 144285	43.9	0.62	46.2	2.49	1.64	0.03	0.28	0.02	0.14
28: 144286	52.7	1.66	34.1	2.45	1.47	0.04	0.28	0.09	0.16
29: 144287	46.3	0.19	38.5	1.76	0.77	< 0.01	0.08	0.01	0.09
30: 144288	44.1	0.19	40.4	1.79	0.78	0.01	0.08	< 0.01	0.11
31: 144289	38.8	10.7	13.4	8.54	9.73	0.82	0.81	0.74	0.26
32: 144290	45.6	2.77	33.6	3.09	3.60	0.76	0.17	0.15	0.16
33: 144291	47.3	0.36	39.9	1.92	0.86	< 0.01	0.12	0.02	0.11
34: 144292	43.9	0.11	45.5	1.78	0.71	< 0.01	0.04	< 0.01	0.11
35: 144293	45.4	0.07	44.1	2.01	0.67	< 0.01	0.03	< 0.01	0.10
36: 144294	38.3	0.08	49.5	1.71	0.68	< 0.01	0.04	< 0.01	0.11
37: 144295	43.6	0.13	45.4	1.59	1.03	< 0.01	0.06	< 0.01	0.13
38: 144296	45.4	4.29	34.7	3.23	0.51	0.14	0.06	0.23	0.21
39: 144297	43.2	1.04	39.8	2.38	1.43	0.25	0.08	0.05	0.12
40: 144298	95.3	1.51	0.95	0.46	0.63	0.37	0.21	0.05	0.01
41: 144299	50.4	3.76	31.8	3.38	2.62	1.03	0.21	0.21	0.19
42: 144300	63.2	1.83	22.7	1.91	0.72	0.25	0.10	0.10	0.23
43: 144301	51.4	0.35	31.3	2.02	0.40	< 0.01	0.04	0.01	0.08

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
17: 144275	0.13	0.01	< 0.01	4.66	99.9	0.61	0.59	17.1	23.6
18: 144276	0.09	0.02	< 0.01	5.37	98.7	1.38	1.38	16.2	22.3
19: 144277	0.11	0.05	0.03	8.77	98.9	17.5	16.8	7.8	10.8
20: 144278	0.09	0.03	< 0.01	9.49	99.9	0.79	0.72	10.2	14.1
21: 144279	0.13	0.02	< 0.01	7.95	100.1	1.00	1.00	6.7	9.2
22: 144280	0.08	0.03	< 0.01	3.31	100.8	0.19	0.19	18.2	25.1
23: 144281	0.07	0.02	< 0.01	2.49	99.8	0.25	0.26	21.3	29.4
24: 144282	0.10	0.04	0.02	4.66	99.8	0.04	< 0.05	0.7	1.0
25: 144283	0.08	0.03	< 0.01	2.02	99.1	0.17	0.12	22.7	31.4
26: 144284	0.10	0.02	< 0.01	5.93	99.7	2.73	2.44	9.0	12.5
27: 144285	0.08	0.01	< 0.01	3.39	98.8	0.32	0.30	23.5	32.4
28: 144286	0.06	0.04	< 0.01	6.14	99.2	0.63	0.62	13.1	18.1
29: 144287	0.04	0.03	< 0.01	12.0	99.8	0.10	0.09	10.5	14.5
30: 144288	0.04	0.03	< 0.01	12.2	99.8	0.12	0.12	11.4	15.8
31: 144289	0.15	0.11	0.04	15.3	99.4	0.05	< 0.05	0.7	1.0
32: 144290	0.08	0.04	0.01	9.53	99.5	0.26	0.25	13.9	19.2
33: 144291	0.05	0.02	< 0.01	9.14	99.8	0.33	0.34	15.8	21.8
34: 144292	0.04	0.03	< 0.01	8.95	101.2	0.05	0.05	19.9	27.5
35: 144293	0.06	0.02	< 0.01	8.44	100.9	0.06	0.06	19.6	27.0
36: 144294	0.04	0.03	< 0.01	10.3	100.8	0.06	0.05	20.6	28.5
37: 144295	0.05	0.03	< 0.01	7.53	99.5	0.38	0.36	21.9	30.2
38: 144296	0.06	0.02	0.01	11.0	99.8	2.73	2.61	6.5	9.0
39: 144297	0.06	0.02	0.01	11.5	100.0	0.05	0.06	13.5	18.6
40: 144298	< 0.01	0.05	< 0.01	0.91	100.5	0.02	< 0.05	0.8	1.1
41: 144299	0.07	0.02	0.02	5.69	99.4	0.16	0.16	15.8	21.8
42: 144300	0.06	0.02	< 0.01	8.06	99.1	2.38	2.03	3.8	5.2
43: 144301	0.07	0.02	< 0.01	14.4	100.1	1.17	1.12	3.2	4.4

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Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
44: 144302	41.7	0.04	40.7	1.98	0.49	< 0.01	0.01	< 0.01	0.12
45: 144303	48.6	3.37	27.7	2.66	1.36	0.83	0.47	0.15	0.16
46: 144304	47.6	2.88	30.0	2.48	1.17	0.69	0.41	0.12	0.14
47: 144305	53.2	0.16	28.9	2.31	0.40	< 0.01	0.02	< 0.01	0.09
48: 144306	42.0	0.07	37.5	2.56	0.90	< 0.01	0.02	< 0.01	0.15
49: 144307	51.0	0.51	29.1	2.61	0.38	0.20	0.03	0.03	0.05
50: 144308	56.5	0.43	27.0	2.03	0.25	< 0.01	0.05	0.03	0.04
51-BLK: Sud-Sample Prep BLK	50.1	12.3	8.13	12.6	13.0	0.96	0.17	0.24	0.01
52: 144309	44.5	0.11	48.3	1.42	0.47	< 0.01	0.02	0.02	0.09
53: 144310	43.6	0.13	49.2	1.31	0.50	0.01	< 0.01	< 0.01	0.07
54: 144311	8.10	0.98	86.8	0.02	0.04	0.02	0.03	0.05	0.12
55: 144312	45.5	0.61	44.6	1.61	0.73	0.08	0.06	0.04	0.10
56: 144313	46.4	0.20	37.5	1.83	0.68	< 0.01	< 0.01	0.01	0.08
57: 144314	43.6	0.17	35.5	2.49	0.89	< 0.01	0.02	0.01	0.08
58: 144315	37.5	0.15	38.2	2.80	0.99	0.02	0.02	0.01	0.10
59: 144316	43.5	0.17	39.8	2.45	1.14	0.02	0.07	0.02	0.07
60: 144317	48.2	1.38	36.0	2.89	1.72	0.06	0.23	0.08	0.11
61: 144318	39.5	2.97	33.5	3.80	2.46	0.87	0.14	0.17	0.19
64-REP: 144310	43.6	0.13	49.2	1.31	0.50	0.01	< 0.01	< 0.01	0.07

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe %	Fe3O4 %
44: 144302	0.06	0.02	< 0.01	14.9	100.0	0.04	< 0.05	9.3	12.8
45: 144303	0.09	0.02	< 0.01	13.5	98.9	2.13	2.04	2.5	3.4
46: 144304	0.08	0.03	< 0.01	14.3	99.9	4.07	4.04	2.7	3.7
47: 144305	0.14	0.02	< 0.01	14.6	99.8	0.92	0.92	2.0	2.8
48: 144306	0.08	0.02	< 0.01	17.1	100.4	0.05	< 0.05	4.9	6.8
49: 144307	0.20	0.03	< 0.01	15.5	99.7	1.21	1.03	0.8	1.1
50: 144308	0.14	0.03	< 0.01	13.7	100.2	1.60	1.10	1.0	1.4
51-BLK: Sud-Sample Prep BLK	0.15	0.15	0.04	2.25	100.0	0.04	< 0.05	0.9	1.3
52: 144309	0.03	0.04	< 0.01	4.79	99.8	0.08	0.07	28.0	38.7
53: 144310	0.03	0.02	< 0.01	4.63	99.5	0.13	0.13	29.3	40.5
54: 144311	1.00	< 0.01	< 0.01	3.12	100.3	< 0.01	< 0.05	2.8	3.8
55: 144312	0.04	0.03	< 0.01	6.24	99.7	0.09	< 0.05	22.8	31.5
56: 144313	0.03	0.02	< 0.01	13.0	99.8	0.09	0.08	9.4	13.0
57: 144314	0.04	0.02	< 0.01	17.1	100.0	0.10	< 0.05	3.0	4.2
58: 144315	0.05	0.03	< 0.01	20.2	100.0	0.05	< 0.05	1.5	2.1
59: 144316	0.04	0.01	< 0.01	12.8	100.1	0.06	0.05	12.0	16.6
60: 144317	0.04	0.02	< 0.01	9.21	99.9	0.10	< 0.05	14.5	20.0
61: 144318	0.08	0.04	< 0.01	15.7	99.4	0.51	0.50	4.3	5.9
64-REP: 144310	0.03	0.03	< 0.01	4.71	99.6	0.14	0.13	29.2	40.4

Control Quality Analysis - Not suitable for commercial exchange



\_\_\_\_\_  
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September 28, 2011

Date Rec. : 23 August 2011

LR Report : CA03454-AUG11

Client Ref : 144001 to 144049

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
1-BLK: Sud-Sample Prep BLK	50.8	12.9	7.61	11.6	12.7	1.12	0.33	0.30	0.03
2: 144001	50.9	0.98	43.4	0.16	0.05	0.02	< 0.01	0.02	0.04
3: 144002	60.0	0.86	35.1	0.08	0.03	0.02	< 0.01	0.02	0.06
4: 144003	56.2	0.28	39.3	0.03	0.03	< 0.01	< 0.01	0.01	0.21
5: 144004	49.3	0.89	44.9	0.05	0.02	0.01	< 0.01	< 0.01	0.14
6: 144005	43.9	0.34	45.0	1.05	0.14	< 0.01	< 0.01	0.01	0.04
7: 144006	52.9	0.58	39.9	0.22	0.05	0.01	< 0.01	< 0.01	0.08
8: 144007	55.1	2.29	30.0	1.05	0.11	< 0.01	0.02	0.07	0.05
9: 144008	58.2	2.09	28.9	0.88	0.09	< 0.01	0.01	0.06	0.04
10: 144009	55.9	2.63	28.6	1.55	0.13	0.02	0.03	0.09	0.04
11: 144010	65.8	1.06	22.4	1.38	0.18	< 0.01	0.02	0.06	0.07
12: 144011	80.8	0.82	12.9	0.68	0.08	0.02	0.01	0.04	0.04
13: 144012	70.7	0.97	19.0	1.22	0.16	< 0.01	0.02	0.04	0.04
14: 144013	61.0	1.21	28.0	2.00	0.29	0.02	0.09	0.05	0.07
15: 144014	52.7	0.21	41.3	2.18	0.83	< 0.01	0.12	< 0.01	0.14

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %	Weight g
1-BLK: Sud-Sample Prep BLK	0.14	0.13	0.03	2.33	100.0	0.06	< 0.05	0.6	0.8	1258
2: 144001	0.01	< 0.01	< 0.01	3.99	99.6	0.11	0.09	10.8	14.9	12248
3: 144002	< 0.01	0.02	< 0.01	4.12	100.3	0.24	0.19	6.7	9.3	10568
4: 144003	< 0.01	0.04	< 0.01	4.27	100.4	0.02	< 0.05	2.2	3.1	8984
5: 144004	< 0.01	0.01	< 0.01	4.41	99.7	0.02	< 0.05	11.0	15.2	5110
6: 144005	0.05	< 0.01	< 0.01	7.94	98.5	0.47	0.40	14.2	19.6	6487
7: 144006	< 0.01	< 0.01	< 0.01	5.98	99.7	0.53	0.42	5.1	7.1	9171
8: 144007	0.07	< 0.01	< 0.01	9.79	98.6	3.30	3.23	1.4	1.9	5100
9: 144008	0.05	< 0.01	< 0.01	8.81	99.1	2.71	2.52	1.1	1.5	5185
10: 144009	0.10	< 0.01	< 0.01	10.8	99.9	5.36	5.20	1.7	2.3	10126
11: 144010	0.09	0.02	< 0.01	8.06	99.1	2.49	2.40	4.4	6.1	12144
12: 144011	0.02	0.03	< 0.01	4.84	100.3	1.79	1.54	2.2	3.0	13052
13: 144012	0.07	0.03	< 0.01	7.71	100.0	1.78	1.27	2.8	3.9	13453
14: 144013	0.10	< 0.01	< 0.01	7.02	99.9	1.63	1.56	8.5	11.7	6533
15: 144014	0.08	0.01	< 0.01	2.16	99.7	0.16	0.11	21.4	29.6	15295

OnLine LIMS



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LR Report : CA03454-AUG11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
16: 144015	98.5	0.50	0.64	0.16	0.28	0.15	0.07	0.02	< 0.01
17: 144016	51.4	0.36	41.4	1.62	0.89	0.02	0.14	< 0.01	0.18
18: 144017	60.8	16.4	8.90	3.11	0.52	2.96	2.14	0.70	0.32
19: 144018	49.1	0.86	42.9	1.71	0.68	0.03	0.24	0.04	0.17
20: 144019	58.9	4.28	27.8	2.63	0.48	0.19	0.45	0.21	0.30
21: 144020	61.8	0.87	28.8	1.48	0.21	0.02	0.23	0.04	0.08
22: 144021	50.8	0.30	41.2	1.79	0.25	0.01	0.13	0.02	0.08
23: 144022	50.2	3.01	31.1	3.37	0.57	0.03	0.15	0.17	0.26
24: 144023	42.9	1.17	39.3	2.23	0.48	0.02	0.07	0.08	0.15
25: 144024	45.0	0.13	38.5	2.06	0.46	< 0.01	0.03	< 0.01	0.12
26: 144025	56.1	0.39	26.8	2.34	0.24	< 0.01	0.02	0.02	0.05
27: 144026	54.7	0.32	27.3	2.44	0.40	< 0.01	0.03	0.02	0.12
28: 144027	45.2	0.10	39.3	1.88	0.30	0.02	0.02	< 0.01	0.07
29: 144028	40.8	0.18	49.1	1.28	0.34	< 0.01	0.02	< 0.01	0.08
30: 144029	46.1	0.07	45.8	1.14	0.18	< 0.01	0.02	< 0.01	0.08
31: 144030	40.5	0.07	49.9	1.33	0.20	< 0.01	0.02	< 0.01	0.07
32: 144031	45.8	0.03	50.7	0.89	0.14	< 0.01	< 0.01	< 0.01	0.08
33: 144032	44.0	0.02	49.2	1.19	0.20	< 0.01	< 0.01	< 0.01	0.06
34: 144033	43.4	0.02	50.3	1.02	0.19	< 0.01	< 0.01	0.01	0.08
35: 144034	45.1	0.07	48.8	1.06	0.13	< 0.01	< 0.01	< 0.01	0.05
36: 144035	44.7	0.40	50.1	1.43	0.23	< 0.01	< 0.01	0.03	0.14
37: 144036	44.9	0.31	48.7	1.56	0.27	0.04	0.04	0.04	0.10
38: 144037	47.2	0.10	48.3	1.04	0.15	< 0.01	0.04	0.02	0.07
39: 144038	43.4	0.06	46.5	1.56	0.27	< 0.01	0.03	< 0.01	0.08

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %	Weight g
16: 144015	< 0.01	0.03	< 0.01	0.24	100.5	0.01	< 0.05	0.9	1.2	1405
17: 144016	0.07	< 0.01	< 0.01	3.48	99.5	0.11	0.10	21.9	30.3	16174
18: 144017	0.03	0.02	0.01	4.30	100.1	0.02	< 0.05	0.6	0.8	5370
19: 144018	0.09	0.01	< 0.01	4.04	99.9	0.28	0.22	21.3	29.4	15732
20: 144019	0.09	0.01	0.01	4.72	100.0	0.77	0.63	11.4	15.8	13535
21: 144020	0.08	0.01	< 0.01	6.23	99.9	1.02	0.88	10.1	13.9	14151
22: 144021	0.07	< 0.01	< 0.01	5.80	100.5	0.33	0.31	19.6	27.0	15047
23: 144022	0.11	0.01	< 0.01	11.6	100.6	0.34	0.32	5.4	7.5	13422
24: 144023	0.07	0.02	< 0.01	13.4	99.9	0.94	0.80	9.8	13.6	14450
25: 144024	0.07	0.01	< 0.01	14.0	100.3	0.28	0.27	8.8	12.2	15481
26: 144025	0.21	0.02	< 0.01	14.1	100.3	2.20	2.16	1.1	1.5	9436
27: 144026	0.16	0.02	< 0.01	14.8	100.4	0.34	0.27	0.7	1.0	4483
28: 144027	0.08	< 0.01	< 0.01	13.0	100.0	1.21	0.97	10.6	14.7	10749
29: 144028	0.02	< 0.01	< 0.01	8.07	100.0	0.28	0.21	22.7	31.3	11456
30: 144029	0.02	0.02	< 0.01	6.63	100.1	0.62	0.37	22.3	30.8	15548
31: 144030	0.02	0.01	< 0.01	7.51	99.7	0.79	0.39	24.2	33.5	15585
32: 144031	0.02	< 0.01	< 0.01	2.41	100.0	0.18	0.09	30.3	41.9	15944
33: 144032	0.02	0.01	< 0.01	5.09	99.8	0.10	0.08	26.6	36.8	16405
34: 144033	0.02	< 0.01	< 0.01	5.21	100.3	0.10	0.09	27.0	37.3	15092
35: 144034	0.03	< 0.01	< 0.01	4.38	99.6	0.55	0.46	27.9	38.5	15619
36: 144035	0.03	0.01	< 0.01	2.72	99.8	0.42	0.40	30.0	41.5	16088
37: 144036	0.04	0.01	< 0.01	3.70	99.8	0.35	0.17	28.1	38.8	15917
38: 144037	0.03	0.04	< 0.01	2.67	99.6	0.18	0.10	28.4	39.3	16053
39: 144038	0.03	0.02	< 0.01	7.74	99.6	0.38	0.35	21.8	30.1	8384

Online LIMS

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
40: 144039	45.3	1.35	35.3	2.32	0.64	< 0.01	0.10	0.07	0.11
41: 144040	10.7	0.03	0.10	21.4	28.9	0.02	0.01	< 0.01	< 0.01
42: 144041	54.5	3.09	27.7	1.97	0.22	0.02	0.23	0.15	0.12
43: 144042	56.7	10.8	21.0	2.39	0.16	0.05	1.36	0.45	0.10
44: 144043	61.9	17.4	8.69	1.61	0.35	0.24	4.38	0.68	0.11
45: 144044	61.4	17.7	7.19	1.37	1.45	1.47	3.82	0.68	0.08
46: 144045	60.4	16.8	8.49	1.55	1.92	1.79	3.15	0.69	0.10
47: 144046	60.9	15.6	8.60	1.81	2.01	2.35	2.43	0.65	0.12
48: 144047	58.9	16.4	9.71	1.91	1.98	2.15	2.56	0.68	0.09
49: 144048	53.5	15.8	6.34	3.95	5.57	4.30	1.37	0.66	0.32
50-BLK: Sud-Sample Prep BLK	51.2	11.7	7.40	11.7	12.8	1.00	0.20	0.22	0.02
51: 144049	53.3	15.9	6.25	3.95	5.48	4.36	1.40	0.66	0.32
52-DUP: 144019	58.7	4.32	27.7	2.61	0.47	0.17	0.45	0.21	0.31
53-DUP: 144039	45.3	1.34	35.4	2.31	0.64	0.01	0.10	0.08	0.11

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %	Weight g
40: 144039	0.07	< 0.01	< 0.01	14.4	99.6	1.32	0.81	5.9	8.2	13969
41: 144040	0.05	< 0.01	< 0.01	38.2	99.5	< 0.01	< 0.05	0.5	0.7	1821
42: 144041	0.06	0.02	0.01	10.9	99.0	4.26	4.09	2.3	3.2	10800
43: 144042	0.08	0.02	0.01	6.37	99.5	1.49	1.22	0.6	0.9	10876
44: 144043	0.06	0.02	0.02	4.36	99.8	0.78	0.57	0.5	0.7	12921
45: 144044	0.06	0.02	0.02	3.86	99.1	0.39	0.20	0.5	0.7	12998
46: 144045	0.10	0.02	0.02	4.35	99.4	0.61	0.45	0.6	0.8	13666
47: 144046	0.10	0.02	0.02	4.33	99.0	0.83	0.28	0.6	0.8	13467
48: 144047	0.09	0.03	0.02	4.47	98.9	1.39	0.79	0.5	0.7	8484
49: 144048	0.12	0.02	0.01	7.11	99.1	0.43	0.33	0.6	0.8	4184
50-BLK: Sud-Sample Prep BLK	0.15	0.12	0.03	3.16	99.6	0.05	< 0.05	0.5	0.7	2016
51: 144049	0.10	0.03	0.02	7.21	99.0	0.38	0.31	0.5	0.7	4114
52-DUP: 144019	0.09	0.02	< 0.01	4.74	99.8	0.78	0.61	11.5	15.9	---
53-DUP: 144039	0.06	0.01	< 0.01	14.4	99.7	1.32	0.95	5.9	8.1	---

Control Quality Analysis - Not suitable for commercial exchange



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September 28, 2011

Date Rec. : 26 August 2011

LR Report : CA03471-AUG11

Client Ref : 144050 to 144061

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
1-BLK: Sud-Sample Prep BLK	51.4	13.1	7.54	10.9	12.4	1.27	0.33	0.33	0.03
2: 144050	40.8	5.58	23.5	5.51	5.00	1.52	0.07	0.39	0.25
3: 144051	35.5	7.60	23.1	5.82	7.01	1.74	0.34	0.60	0.41
4: 144052	44.2	1.95	31.7	2.43	2.39	0.20	0.08	0.12	0.13
5: 144053	56.3	2.20	24.5	2.22	1.49	0.07	0.10	0.08	0.11
6: 144054	71.1	0.54	15.6	1.63	1.65	0.01	0.02	0.01	0.05
7: 144055	47.0	6.42	29.9	2.23	0.86	0.04	0.52	0.26	0.06
8: 144056	45.2	4.47	32.2	2.02	1.91	0.16	0.64	0.18	0.11
9: 144057	41.9	0.07	43.0	1.38	0.64	< 0.01	< 0.01	0.01	0.11
10: 144058	39.7	0.07	38.6	1.85	0.69	< 0.01	< 0.01	< 0.01	0.12
11: 144059	41.2	0.15	36.6	1.91	1.39	< 0.01	0.02	0.01	0.10
12: 144060	67.9	0.27	17.3	1.42	1.44	0.02	0.06	< 0.01	0.05

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
1-BLK: Sud-Sample Prep BLK	0.14	0.12	0.03	1.98	99.7	< 0.01	< 0.05	0.6	0.9
2: 144050	0.10	0.05	0.02	14.8	97.5	0.88	0.72	1.4	2.0
3: 144051	0.12	0.04	0.01	16.0	98.3	0.75	0.58	1.1	1.5
4: 144052	0.08	0.01	< 0.01	14.8	98.0	1.70	1.66	1.2	1.7
5: 144053	0.13	0.01	< 0.01	12.0	99.2	3.00	2.99	0.7	1.0
6: 144054	0.10	0.02	< 0.01	8.16	99.0	0.63	0.57	0.7	1.0
7: 144055	0.14	< 0.01	0.01	11.9	99.3	5.99	5.73	0.4	0.6
8: 144056	0.10	< 0.01	< 0.01	11.4	98.3	1.22	1.21	5.3	7.3
9: 144057	0.09	< 0.01	< 0.01	12.7	99.9	0.68	0.58	12.7	17.5
10: 144058	0.10	< 0.01	< 0.01	18.6	99.7	0.42	0.34	1.8	2.5
11: 144059	0.15	0.01	< 0.01	17.8	99.4	1.63	1.65	1.9	2.6
12: 144060	0.22	0.03	< 0.01	9.37	98.1	1.25	1.30	0.7	1.0

OnLine LIMS



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LR Report : CA03471-AUG11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
13: 144061	46.8	7.50	19.1	4.58	6.47	0.24	0.20	0.29	0.09

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
13: 144061	0.16	0.02	< 0.01	13.5	99.0	0.55	0.46	0.7	1.0

Control Quality Analysis - Not suitable for commercial exchange




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April Rice  
Project Coordinator

Email: freeman.smith@roguemining.com



SGS Canada Inc.

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Rogue Resources

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, V6C 1S4

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October 18, 2011

Date Rec. : 26 August 2011

LR Report : CA03477-AUG11

Client Ref : 144062-144072,144074-144143,144145-144148

CERTIFICATE OF ANALYSIS

Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
1-BLK: Sud-Sample Prep	50.3	12.8	7.47	12.1	13.3	1.09	0.17	0.23	0.01
2: 144062	49.9	12.9	18.1	5.24	8.29	2.09	0.43	1.33	0.14
3: 144063	50.0	13.0	18.2	5.18	8.35	2.12	0.43	1.33	0.14
4: 144064	52.8	0.93	39.0	4.01	1.49	0.02	0.08	0.06	0.13
5: 144065	51.9	0.34	43.1	2.69	1.05	0.02	0.06	0.02	0.14
6: 144066	53.3	2.53	32.6	3.51	1.30	0.27	0.14	0.16	0.13
7: 144067	54.1	2.36	36.6	2.76	1.88	0.08	0.17	0.13	0.11
8: 144068	49.8	8.08	24.1	6.06	4.08	1.27	0.28	0.48	0.29
9: 144069	25.1	0.26	0.41	17.4	23.7	0.09	0.05	0.01	0.01
10: 144070	53.9	0.96	38.6	2.88	1.75	0.07	0.13	0.07	0.20
11: 144071	53.5	2.44	35.4	3.58	1.80	0.03	0.15	0.16	0.20
12: 144072	50.2	3.19	35.9	3.98	2.95	0.15	0.22	0.18	0.20
13: 144074	47.8	8.42	22.2	7.94	5.37	0.53	0.30	0.51	0.25
14: 144075	54.3	0.60	41.5	1.92	1.15	0.02	0.08	0.04	0.17

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe %	Fe3O4 %
1-BLK: Sud-Sample Prep	0.15	0.12	0.03	2.72	100.5	< 0.01	< 0.05	0.6	0.9
2: 144062	0.24	< 0.01	0.07	2.01	100.8	0.12	0.11	1.6	2.2
3: 144063	0.24	< 0.01	0.07	0.75	99.8	0.10	< 0.05	15.3	21.1
4: 144064	0.14	< 0.01	< 0.01	2.01	100.8	0.22	0.15	15.1	20.8
5: 144065	0.07	< 0.01	< 0.01	0.84	100.3	0.21	0.12	21.9	30.2
6: 144066	0.28	< 0.01	< 0.01	4.76	99.0	5.31	5.04	9.3	12.9
7: 144067	0.10	0.01	< 0.01	1.70	100.0	0.53	0.12	17.3	23.9
8: 144068	0.13	0.03	0.02	5.11	99.7	0.13	0.08	8.0	11.0
9: 144069	0.03	< 0.01	< 0.01	32.6	99.7	0.03	< 0.05	0.8	1.1
10: 144070	0.09	< 0.01	< 0.01	1.50	100.1	0.24	0.16	14.3	19.8
11: 144071	0.07	0.01	< 0.01	2.56	99.9	0.51	0.43	11.2	15.4
12: 144072	0.09	0.01	< 0.01	2.97	100.1	0.70	0.57	13.2	18.3
13: 144074	0.12	0.05	0.03	6.58	100.1	0.11	0.06	7.5	10.3
14: 144075	0.05	< 0.01	< 0.01	0.68	100.5	0.19	0.10	21.5	29.7

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SGS Canada Inc.

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LR Report : CA03477-AUG11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
15: 144076	68.6	2.86	22.7	2.55	1.44	0.10	0.22	0.17	0.21
16: 144077	66.6	2.75	23.3	2.67	1.49	0.10	0.21	0.13	0.17
17: 144078	56.6	0.56	38.4	2.30	1.00	0.03	0.10	0.03	0.14
18: 144079	57.0	0.38	38.4	2.19	1.24	0.03	0.12	0.01	0.14
19: 144080	47.5	0.85	47.3	2.44	1.37	0.02	0.14	0.05	0.22
20: 144081	50.5	0.48	45.8	2.01	1.15	0.03	0.16	0.02	0.16
21: 144082	47.7	0.12	48.6	2.07	1.13	0.02	0.06	< 0.01	0.15
22: 144083	48.5	0.33	48.2	1.91	1.03	0.02	0.12	0.01	0.15
23: 144084	54.9	1.79	37.9	2.13	1.55	0.14	0.19	0.09	0.17
24: 144085	54.7	0.57	41.6	1.80	1.04	0.02	0.13	0.02	0.15
25: 144086	65.3	0.65	28.8	1.73	0.33	0.04	0.14	0.02	0.05
26: 144087	48.1	0.13	49.5	1.79	0.91	0.02	0.07	< 0.01	0.16
27: 144088	48.6	0.05	48.7	2.04	1.01	0.02	0.05	< 0.01	0.15
28: 144089	42.6	0.07	54.7	1.71	1.15	0.01	0.06	< 0.01	0.17
29: 144090	45.2	0.08	51.8	2.29	0.91	0.03	0.07	< 0.01	0.15
30: 144091	43.1	0.08	53.5	2.30	0.93	0.03	0.07	< 0.01	0.14
31: 144092	52.0	8.00	27.6	2.66	3.28	1.69	1.21	0.35	0.25
32: 144093	46.8	2.06	44.1	2.51	2.16	0.36	0.21	0.12	0.21
33: 144094	64.2	0.21	32.2	1.56	0.65	0.02	0.10	< 0.01	0.07
34: 144095	42.7	0.10	54.2	1.85	1.08	0.02	0.07	< 0.01	0.17
35: 144096	50.1	0.17	46.6	1.86	0.88	0.02	0.11	< 0.01	0.12
36: 144097	97.5	1.03	0.81	0.29	0.41	0.29	0.14	0.03	< 0.01
37: 144098	49.5	0.12	45.9	2.08	0.94	0.02	0.09	< 0.01	0.11
38: 144099	47.5	4.83	34.0	2.32	2.03	0.72	0.33	0.23	0.32

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
15: 144076	0.09	0.02	< 0.01	1.92	100.8	1.08	0.94	6.6	9.1
16: 144077	0.10	0.02	< 0.01	1.84	99.4	1.15	1.00	7.0	9.7
17: 144078	0.07	0.01	< 0.01	0.48	99.7	0.85	0.65	18.3	25.3
18: 144079	0.08	< 0.01	< 0.01	0.58	100.2	0.63	0.45	18.0	24.8
19: 144080	0.05	< 0.01	< 0.01	0.24	100.2	0.27	0.18	24.1	33.3
20: 144081	0.07	< 0.01	< 0.01	0.04	100.3	0.28	0.19	25.0	34.6
21: 144082	0.05	< 0.01	< 0.01	-0.07	99.8	0.08	0.07	26.7	36.9
22: 144083	0.05	< 0.01	< 0.01	-0.11	100.2	0.20	0.12	27.2	37.6
23: 144084	0.08	0.02	< 0.01	0.89	99.9	0.95	0.81	19.1	26.4
24: 144085	0.07	< 0.01	< 0.01	0.17	100.3	0.28	0.27	24.2	33.4
25: 144086	0.09	< 0.01	< 0.01	1.79	98.9	3.88	3.93	11.1	15.3
26: 144087	0.05	< 0.01	< 0.01	-0.42	100.3	0.09	0.11	28.0	38.6
27: 144088	0.05	< 0.01	< 0.01	-0.13	100.5	0.08	0.06	25.6	35.3
28: 144089	0.04	< 0.01	< 0.01	-0.20	100.2	0.13	0.11	31.0	42.8
29: 144090	0.05	< 0.01	< 0.01	-0.10	100.4	0.05	< 0.05	25.8	35.6
30: 144091	0.06	< 0.01	< 0.01	-0.11	100.1	0.06	< 0.05	27.2	37.5
31: 144092	0.06	< 0.01	< 0.01	2.78	100.0	0.11	0.09	13.2	18.3
32: 144093	0.05	< 0.01	< 0.01	0.83	99.4	0.26	0.24	24.0	33.1
33: 144094	0.07	< 0.01	< 0.01	1.43	100.6	2.12	2.01	13.5	18.7
34: 144095	0.06	< 0.01	< 0.01	-0.12	100.1	0.02	< 0.05	24.6	34.0
35: 144096	0.06	< 0.01	< 0.01	0.18	100.1	0.25	0.21	25.0	34.5
36: 144097	< 0.01	0.02	< 0.01	0.43	100.9	< 0.01	< 0.05	1.0	1.4
37: 144098	0.08	< 0.01	< 0.01	0.77	99.6	0.67	0.57	24.3	33.6
38: 144099	0.08	< 0.01	< 0.01	5.79	98.2	8.30	8.01	7.9	10.9

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LR Report : CA03477-AUG11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
39: 144100	46.0	0.10	50.1	2.34	1.18	0.02	0.05	< 0.01	0.14
40: 144101	50.0	0.01	46.9	2.20	0.70	< 0.01	0.03	< 0.01	0.15
41: 144102	49.6	1.42	37.9	1.91	0.48	0.04	0.18	0.07	0.06
42: 144103	47.5	0.16	44.8	2.72	1.32	< 0.01	0.12	< 0.01	0.10
43: 144104	51.3	0.14	42.8	2.47	1.01	0.02	0.12	< 0.01	0.11
44: 144105	56.5	1.77	30.6	2.36	0.81	0.12	0.27	0.07	0.07
45: 144106	45.0	5.58	29.3	4.24	2.78	0.86	0.29	0.34	0.20
46: 144107	59.3	0.08	33.9	2.87	0.83	0.02	0.04	< 0.01	0.09
47: 144109	53.2	14.1	8.24	5.73	5.56	2.45	1.72	0.64	0.53
48: 144110	52.3	0.15	40.3	3.30	0.91	0.01	0.04	< 0.01	0.05
49: 144111	52.3	0.08	38.6	3.27	1.09	0.02	0.06	< 0.01	0.06
50-BLK: Sud-Sample Pre	50.7	12.5	7.64	12.4	13.2	1.08	0.17	0.24	0.02
51: 144112	54.4	0.13	38.0	3.00	1.08	0.04	0.08	< 0.01	0.08
52: 144113	57.1	4.27	23.3	4.52	2.09	0.38	0.15	0.24	0.10
53: 144114	50.4	2.43	31.0	3.99	2.37	0.20	0.13	0.14	0.09
54: 144115	59.4	2.04	29.1	3.17	1.79	0.45	0.17	0.10	0.11
55: 144116	50.6	4.37	30.8	5.20	3.01	0.11	0.43	0.27	0.19
56: 144117	44.6	0.06	51.6	2.27	0.90	< 0.01	0.06	< 0.01	0.13
57: 144118	43.3	0.06	53.6	2.09	0.67	0.01	0.05	< 0.01	0.13
58: 144119	47.0	1.15	44.5	2.86	1.47	0.02	0.14	0.07	0.14
59: 144120	68.1	1.88	21.9	2.88	0.83	0.03	0.05	0.11	0.09
60: 144121	61.0	0.30	30.5	2.86	1.11	0.02	0.05	0.02	0.05
61: 144122	47.7	0.06	44.3	3.75	1.17	0.01	0.05	< 0.01	0.07
62: 144123	51.9	0.27	40.1	2.82	0.91	0.02	0.07	0.07	0.08

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
39: 144100	0.07	< 0.01	< 0.01	0.19	100.1	0.01	< 0.05	28.5	39.4
40: 144101	0.06	< 0.01	< 0.01	0.01	100.0	0.08	0.07	26.0	35.9
41: 144102	0.08	0.01	< 0.01	6.55	98.3	11.3	11.4	8.3	11.5
42: 144103	0.08	< 0.01	< 0.01	2.24	99.1	0.34	0.35	21.9	30.2
43: 144104	0.07	< 0.01	< 0.01	1.84	99.9	0.16	0.15	20.8	28.8
44: 144105	0.07	0.02	< 0.01	7.28	99.9	1.88	1.73	9.3	12.9
45: 144106	0.12	0.03	0.01	7.38	96.2	9.57	8.60	5.4	7.4
46: 144107	0.15	< 0.01	< 0.01	2.48	99.9	0.06	0.10	15.6	21.6
47: 144109	0.08	0.01	0.02	7.54	99.8	< 0.01	< 0.05	0.6	0.9
48: 144110	0.15	< 0.01	< 0.01	3.10	100.3	0.05	< 0.05	19.9	27.5
49: 144111	0.11	< 0.01	< 0.01	4.46	100.0	0.10	0.11	18.0	24.9
50-BLK: Sud-Sample Pre	0.14	0.13	0.03	2.04	100.4	0.04	<.05	0.6	0.9
51: 144112	0.10	< 0.01	< 0.01	2.79	99.7	0.50	0.44	18.5	25.6
52: 144113	0.17	0.02	0.01	5.68	98.0	1.31	1.16	6.6	9.1
53: 144114	0.28	< 0.01	< 0.01	6.60	97.7	2.23	2.09	10.6	14.6
54: 144115	0.12	< 0.01	< 0.01	3.56	100.0	0.17	0.15	14.3	19.8
55: 144116	0.10	0.01	< 0.01	5.40	100.4	0.06	< 0.05	14.5	20.0
56: 144117	0.04	< 0.01	< 0.01	0.94	100.6	0.05	< 0.05	31.3	43.2
57: 144118	0.05	< 0.01	< 0.01	0.06	100.1	0.02	< 0.05	33.3	46.0
58: 144119	0.06	< 0.01	< 0.01	2.58	100.0	0.13	0.11	24.9	34.4
59: 144120	0.10	< 0.01	< 0.01	4.80	100.8	0.13	0.10	7.9	10.9
60: 144121	0.08	< 0.01	< 0.01	4.38	100.4	0.10	0.09	13.1	18.1
61: 144122	0.09	< 0.01	< 0.01	3.42	100.5	0.01	< 0.05	19.4	26.8
62: 144123	0.05	< 0.01	< 0.01	3.58	99.9	0.14	0.13	16.9	23.3

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**LR Report : CA03477-AUG11**

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
63: 144124	44.8	0.26	43.7	2.36	0.83	0.03	0.08	0.06	0.08
64: 144125	46.9	0.08	44.9	1.84	0.62	0.02	0.04	< 0.01	0.09
65: 144126	48.5	0.13	45.6	1.98	0.74	0.02	0.08	< 0.01	0.10
66: 144127	46.6	0.22	43.5	2.38	0.97	0.03	0.09	0.01	0.10
67: 144128	48.1	0.18	41.9	2.31	0.90	0.03	0.08	< 0.01	0.10
68: 144129	45.2	0.27	40.9	2.61	1.11	0.05	0.11	0.01	0.08
69: 144130	50.1	0.82	35.9	2.81	1.42	0.09	0.22	0.09	0.09
70: 144131	50.2	2.85	34.3	3.06	3.10	0.07	0.43	0.18	0.14
71: 144132	97.2	0.92	0.83	0.29	0.41	0.26	0.12	0.03	0.01
72: 144133	52.7	0.44	38.3	2.97	0.99	0.06	0.22	0.02	0.07
73: 144134	45.5	0.27	46.2	1.73	0.92	0.04	0.09	0.02	0.08
74: 144135	49.8	0.10	43.1	1.73	0.65	0.03	0.05	< 0.01	0.09
75: 144136	46.1	0.32	44.5	1.63	0.70	0.05	0.07	0.02	0.07
76: 144137	47.4	0.15	44.5	1.43	0.57	0.05	0.07	< 0.01	0.13
77: 144138	46.3	0.03	48.5	1.50	0.58	0.01	0.03	< 0.01	0.09
78: 144139	45.2	0.02	51.1	1.29	0.50	0.01	0.02	< 0.01	0.11
79: 144140	46.0	0.04	50.3	1.34	0.49	0.02	0.02	< 0.01	0.09
80: 144141	45.6	0.05	49.2	1.60	0.51	0.02	0.03	< 0.01	0.11
81: 144142	48.8	0.10	48.8	1.32	0.50	< 0.01	0.03	0.01	0.09
82: 144143	47.6	0.03	50.1	1.31	0.46	< 0.01	0.03	0.02	0.09
83: 144145	58.1	15.6	9.52	2.92	3.38	0.76	3.04	0.67	0.17
84: 144146	50.6	3.51	32.5	2.68	1.75	0.13	0.37	0.17	0.10
85: 144147	52.3	12.2	10.8	4.22	7.41	2.34	0.66	0.52	0.10
86: 144148	49.7	11.9	8.42	4.57	9.92	2.08	0.92	0.53	0.10

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
63: 144124	0.04	< 0.01	< 0.01	7.83	100.0	0.17	0.17	19.1	26.4
64: 144125	0.04	< 0.01	< 0.01	5.67	100.3	0.16	0.15	23.2	32.1
65: 144126	0.06	< 0.01	< 0.01	3.20	100.4	0.07	0.07	24.7	34.1
66: 144127	0.07	< 0.01	< 0.01	6.29	100.3	0.04	<0.05	21.4	29.6
67: 144128	0.05	< 0.01	< 0.01	6.55	100.1	0.10	0.13	19.3	26.7
68: 144129	0.06	< 0.01	< 0.01	9.56	99.9	0.40	0.41	15.9	21.9
69: 144130	0.10	< 0.01	< 0.01	8.21	99.8	0.34	0.36	12.6	17.4
70: 144131	0.08	< 0.01	< 0.01	4.38	98.8	0.87	0.79	14.3	19.8
71: 144132	< 0.01	0.03	< 0.01	0.56	100.7	< 0.01	<0.05	0.9	1.3
72: 144133	0.09	< 0.01	< 0.01	4.31	100.2	0.19	0.17	14.6	20.2
73: 144134	0.04	< 0.01	< 0.01	4.49	99.4	0.28	0.22	23.7	32.7
74: 144135	0.04	< 0.01	< 0.01	5.07	100.7	0.02	<0.05	23.4	32.3
75: 144136	0.04	< 0.01	< 0.01	6.57	100.1	0.22	0.18	22.1	30.5
76: 144137	0.04	< 0.01	< 0.01	5.99	100.3	0.20	0.16	21.9	30.2
77: 144138	0.05	< 0.01	< 0.01	3.04	100.1	0.08	0.07	26.9	37.2
78: 144139	0.03	< 0.01	< 0.01	1.95	100.3	0.04	<0.05	32.3	44.6
79: 144140	0.03	0.01	< 0.01	2.05	100.4	0.03	<0.05	31.4	43.4
80: 144141	0.04	< 0.01	< 0.01	2.99	100.2	0.15	0.13	28.4	39.3
81: 144142	0.04	< 0.01	< 0.01	0.33	100.0	0.08	0.07	31.9	44.1
82: 144143	0.03	0.01	< 0.01	0.72	100.4	0.14	0.12	32.7	45.2
83: 144145	0.10	0.03	0.02	5.60	99.9	0.17	0.16	0.9	1.2
84: 144146	0.13	< 0.01	0.01	6.81	98.8	0.83	0.77	9.2	12.7
85: 144147	0.12	0.05	0.02	9.02	99.8	0.18	0.13	0.7	1.0
86: 144148	0.13	0.06	0.03	12.0	100.3	< 0.01	<0.05	0.5	0.7

OnLine LIMS

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
87-DUP: 144081	50.1	0.49	45.6	1.99	1.14	0.03	0.16	0.02	0.16
88-DUP: 144101	50.1	0.02	47.1	2.21	0.71	< 0.01	0.03	< 0.01	0.14
89-REP: 144112	53.9	0.12	38.4	3.03	1.14	0.03	0.08	< 0.01	0.08
90-DUP: 144121	61.2	0.28	30.5	2.88	1.12	0.03	0.06	0.02	0.05
91-DUP: 144141	45.7	0.04	49.1	1.62	0.51	0.01	0.03	< 0.01	0.11

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
87-DUP: 144081	0.06	< 0.01	< 0.01	0.04	99.8	0.28	0.20	25.2	34.8
88-DUP: 144101	0.06	< 0.01	< 0.01	-0.01	100.4	0.08	0.05	25.8	35.7
89-REP: 144112	0.09	< 0.01	< 0.01	2.93	99.8	0.47	0.40	19.0	26.3
90-DUP: 144121	0.10	< 0.01	< 0.01	4.49	100.7	0.10	0.10	13.2	18.2
91-DUP: 144141	0.04	< 0.01	< 0.01	3.13	100.4	0.16	0.15	28.8	39.8

Control Quality analysis - Not suitable for commercial exchange



\_\_\_\_\_  
**April Rice**  
 Project Coordinator

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Rogue Resources

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, V6C 1S4

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January 10, 2012

Date Rec. : 25 November 2011

LR Report : CA03579-NOV11

Client Ref : 104869 - 104928

# CERTIFICATE OF ANALYSIS

## Final Report

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
1-BLK: Sud-Sample	50.8	11.8	14.0	8.45	10.1	1.50	0.58	0.34	0.05
2: 104869	39.7	0.44	38.6	2.20	0.91	0.02	0.04	0.02	0.14
3: 104870	43.6	3.39	35.3	3.32	2.05	0.02	0.15	0.18	0.15
4: 104871	48.4	3.28	32.2	3.00	1.34	0.02	0.10	0.17	0.17
5: 104872	41.4	1.03	43.4	2.25	2.73	0.01	0.13	0.06	0.14
6: 104873	39.1	0.56	45.2	2.31	1.46	0.29	0.13	0.03	0.14
7: 104874	50.1	0.10	43.7	1.35	0.45	< 0.01	0.04	< 0.01	0.06
8: 104875	45.9	0.11	49.4	1.59	0.66	< 0.01	0.04	< 0.01	0.07
9: 104876	45.2	0.14	48.9	1.59	0.70	< 0.01	0.04	< 0.01	0.07
10: 104877	52.1	2.51	33.8	3.56	2.09	< 0.01	0.08	0.15	0.12
11: 104878	48.7	0.28	43.0	2.49	1.64	0.05	0.10	0.14	0.17
12: 104879	47.0	1.61	37.6	2.79	0.79	0.02	0.26	0.09	0.09
13: 104880	63.2	3.23	23.9	2.23	0.31	0.01	0.18	0.17	0.05
14: 104881	49.0	2.46	36.9	3.09	1.36	0.04	0.28	0.12	0.07
15: 104882	56.7	10.9	19.7	2.90	1.27	0.20	1.56	0.47	0.10

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
1-BLK: Sud-Sample	0.13	0.12	0.03	1.81	99.7	0.04	<0.05	0.9	1.3
2: 104869	0.07	< 0.01	< 0.01	19.1	101.3	0.29	0.11	1.0	1.4
3: 104870	0.08	0.02	0.01	12.1	100.4	0.11	0.09	6.9	9.5
4: 104871	0.06	0.03	0.01	11.4	100.1	0.33	0.32	4.8	6.7
5: 104872	0.06	0.01	< 0.01	8.85	100.1	0.19	0.18	19.3	26.7
6: 104873	0.08	< 0.01	< 0.01	11.0	100.4	0.16	0.13	16.1	22.2
7: 104874	0.04	< 0.01	< 0.01	4.72	100.6	0.08	0.08	24.4	33.7
8: 104875	0.05	< 0.01	< 0.01	3.47	101.3	0.04	<0.05	29.2	40.3
9: 104876	0.04	< 0.01	< 0.01	3.37	100.1	0.04	<0.05	29.0	40.1
10: 104877	0.07	0.02	0.01	6.20	100.6	0.09	0.09	16.4	22.6
11: 104878	0.06	0.02	< 0.01	4.39	101.0	0.12	0.12	23.9	33.0
12: 104879	0.17	< 0.01	< 0.01	8.40	98.9	1.34	1.32	13.2	18.3
13: 104880	0.15	0.01	< 0.01	6.94	100.4	2.94	2.87	3.2	4.4
14: 104881	0.12	0.02	< 0.01	6.25	99.7	0.38	0.36	13.5	18.6
15: 104882	0.15	0.02	0.02	5.76	99.7	0.54	0.48	2.3	3.2



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Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
16: 104883	45.8	0.37	36.7	1.52	0.37	<0.01	0.02	<0.01	0.05
17: 104884	25.5	6.56	50.5	2.77	3.08	1.10	0.69	0.61	0.09
18: 104885	37.0	0.10	48.2	1.34	0.36	<0.01	<0.01	<0.01	0.08
19: 104886	39.2	0.39	40.5	1.64	0.55	<0.01	0.02	0.02	0.09
20: 104887	40.4	0.05	38.8	1.92	0.62	<0.01	0.02	<0.01	0.11
21: 104888	44.6	1.29	37.7	1.65	0.13	<0.01	0.09	0.05	0.02
22: 104889	31.1	2.59	46.7	1.96	0.16	0.02	0.19	0.10	0.01
23: 104890	56.6	0.97	29.7	1.36	0.23	<0.01	0.07	0.05	0.07
24: 104891	64.0	0.16	23.7	1.23	0.27	<0.01	0.02	<0.01	0.07
25: 104892	94.2	0.82	0.58	0.96	1.27	0.20	0.11	0.02	<0.01
26: 104893	52.7	0.41	31.1	1.59	0.36	<0.01	0.04	0.01	0.07
27: 104894	40.2	1.68	40.3	2.10	0.91	0.17	0.15	0.08	0.14
28: 104895	47.5	1.02	34.4	2.03	0.62	<0.01	0.04	0.04	0.11
29: 104896	45.0	0.10	40.3	1.83	0.53	<0.01	0.03	<0.01	0.12
30: 104897	46.5	5.25	26.3	4.59	3.39	0.76	0.45	0.28	0.21
31: 104898	55.2	0.36	29.2	2.12	0.31	<0.01	0.03	0.01	0.06
32: 104899	41.9	0.14	35.4	3.39	0.81	<0.01	0.02	<0.01	0.05
33: 104900	39.8	0.12	43.5	2.52	0.75	<0.01	<0.01	<0.01	0.09
34: 104901	46.1	0.14	44.2	1.74	0.48	<0.01	0.01	0.01	0.11
35: 104902	46.6	0.11	41.5	1.49	0.44	<0.01	0.02	<0.01	0.08
36: 104903	45.5	1.74	40.6	1.86	1.16	0.59	0.14	0.12	0.12
37: 104904	46.3	0.46	43.3	1.43	0.50	<0.01	0.02	0.02	0.09
38: 104905	46.3	0.11	41.0	1.77	0.64	<0.01	<0.01	0.01	0.10
39: 104906	40.8	0.12	37.7	2.42	0.77	<0.01	0.01	<0.01	0.06

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
16: 104883	0.08	<0.01	<0.01	16.3	101.2	0.17	0.14	1.4	2.0
17: 104884	0.11	0.04	0.03	9.20	100.2	18.7	16.1	8.7	12.0
18: 104885	0.04	<0.01	<0.01	13.3	100.4	0.08	0.08	15.1	20.8
19: 104886	0.05	<0.01	<0.01	18.5	101.0	0.09	0.09	2.2	3.0
20: 104887	0.04	<0.01	<0.01	18.2	100.2	0.32	0.29	2.4	3.3
21: 104888	0.12	<0.01	<0.01	14.4	100.1	8.91	8.53	5.8	8.0
22: 104889	0.14	<0.01	<0.01	18.0	101.0	13.3	13.3	4.2	5.8
23: 104890	0.08	<0.01	<0.01	11.6	100.7	5.33	5.25	3.8	5.2
24: 104891	0.07	<0.01	<0.01	11.4	100.8	0.42	0.42	1.3	1.8
25: 104892	<0.01	<0.01	<0.01	0.98	99.1	0.02	<0.05	0.8	1.1
26: 104893	0.08	<0.01	<0.01	14.3	100.7	0.70	0.67	1.8	2.5
27: 104894	0.06	<0.01	<0.01	14.5	100.4	0.12	0.12	7.5	10.4
28: 104895	0.08	<0.01	<0.01	14.2	100.0	0.82	0.82	4.0	5.6
29: 104896	0.06	<0.01	<0.01	12.6	100.5	0.94	0.89	12.2	16.8
30: 104897	0.13	0.04	0.01	12.8	100.7	0.07	0.07	5.9	8.1
31: 104898	0.13	<0.01	<0.01	13.6	101.0	3.64	3.53	3.5	4.8
32: 104899	0.12	<0.01	<0.01	19.2	101.1	0.05	<0.05	1.6	2.2
33: 104900	0.05	0.01	<0.01	13.9	100.8	0.09	0.09	13.2	18.2
34: 104901	0.04	<0.01	<0.01	8.33	101.1	0.06	<0.05	20.3	28.0
35: 104902	0.04	0.01	<0.01	10.4	100.8	0.21	0.20	15.4	21.3
36: 104903	0.04	0.02	<0.01	8.99	100.9	1.06	1.01	17.4	24.1
37: 104904	0.04	<0.01	<0.01	8.91	101.0	0.24	0.24	17.7	24.4
38: 104905	0.04	0.02	<0.01	11.0	101.1	0.06	0.05	14.0	19.3
39: 104906	0.05	<0.01	<0.01	18.8	100.8	0.10	0.10	1.7	2.4



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LR Report : CA03579-NOV11

Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
40: 104907	42.1	0.18	40.5	2.19	0.61	<0.01	0.01	<0.01	0.07
41: 104908	96.8	0.74	0.74	0.53	0.75	0.17	0.09	0.02	<0.01
42: 104909	41.8	0.37	36.1	2.65	0.51	<0.01	0.03	0.02	0.07
43: 104910	41.7	0.64	36.3	2.82	1.20	0.09	0.03	0.04	0.10
44: 104911	40.5	0.33	44.9	1.48	0.61	0.03	0.06	0.02	0.09
45: 104912	41.1	1.66	35.9	2.60	1.40	0.09	0.23	0.09	0.09
46: 104913	33.6	2.73	39.3	4.08	3.58	0.09	0.17	0.40	0.18
47: 104914	34.8	3.13	38.6	4.06	3.76	0.18	0.16	0.41	0.20
48: 104915	48.1	13.4	7.27	5.68	7.48	4.32	0.80	0.65	0.53
49: 104916	46.5	4.83	23.7	4.57	3.82	1.05	0.46	0.28	0.32
50-BLK: Sud-Sample	49.8	13.0	8.26	12.4	12.5	1.08	0.29	0.30	0.03
51: 104917	38.7	0.65	38.3	3.05	1.19	<0.01	0.03	0.04	0.10
52: 104918	41.3	0.11	35.1	3.23	0.73	<0.01	<0.01	<0.01	0.05
53: 104919	43.6	0.11	43.7	1.80	0.91	<0.01	<0.01	<0.01	0.08
54: 104920	45.9	4.35	35.9	3.36	2.83	1.20	0.29	0.25	0.19
55: 104921	44.1	0.08	51.4	1.17	0.57	<0.01	<0.01	<0.01	0.15
56: 104922	46.8	0.05	49.1	1.27	0.59	<0.01	<0.01	<0.01	0.14
57: 104923	46.4	0.07	47.5	1.37	0.58	0.01	<0.01	<0.01	0.11
58: 104924	44.6	0.05	54.1	0.89	0.44	<0.01	<0.01	<0.01	0.10
59: 104925	48.6	0.06	46.9	1.07	0.50	<0.01	<0.01	<0.01	0.08
60: 104926	50.4	0.47	42.8	1.22	1.14	<0.01	<0.01	0.03	0.10
61: 104927	25.5	6.73	50.0	2.77	3.06	1.13	0.70	0.60	0.10
62: 104928	50.8	13.1	8.50	4.57	7.66	2.38	1.56	0.61	0.21
63-DUP: 104887	40.6	0.04	39.0	1.91	0.62	<0.01	<0.01	<0.01	0.11

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
40: 104907	0.04	<0.01	<0.01	15.5	101.3	0.08	0.08	8.0	11.0
41: 104908	<0.01	0.02	<0.01	1.10	101.0	0.03	<0.05	0.9	1.3
42: 104909	0.08	0.01	<0.01	18.9	100.5	0.28	0.28	1.1	1.5
43: 104910	0.08	<0.01	<0.01	18.2	101.3	0.06	0.06	2.5	3.5
44: 104911	0.05	<0.01	<0.01	12.4	100.5	0.12	0.12	14.6	20.1
45: 104912	0.07	0.01	<0.01	17.1	100.4	0.26	0.25	2.8	3.8
46: 104913	0.15	0.02	<0.01	14.7	99.0	0.76	0.76	7.8	10.8
47: 104914	0.14	0.02	<0.01	14.1	99.7	0.82	0.78	8.0	11.0
48: 104915	0.12	0.04	0.02	11.3	99.7	0.28	0.30	0.4	0.5
49: 104916	0.11	0.02	<0.01	14.0	99.7	0.36	0.30	1.6	2.2
50-BLK: Sud-Sample	0.16	0.12	0.03	2.91	100.9	0.04	<0.05	1.0	1.4
51: 104917	0.10	0.01	<0.01	18.6	100.7	0.14	0.11	3.1	4.3
52: 104918	0.11	<0.01	<0.01	19.5	100.1	0.07	0.06	0.9	1.2
53: 104919	0.05	<0.01	<0.01	10.8	101.1	0.13	0.09	16.6	23.0
54: 104920	0.07	0.03	<0.01	6.78	101.2	0.09	0.09	19.4	26.8
55: 104921	0.04	0.02	<0.01	2.90	100.4	0.06	0.05	32.1	44.3
56: 104922	0.05	<0.01	<0.01	3.32	101.3	0.15	0.14	29.9	41.3
57: 104923	0.05	<0.01	<0.01	5.08	101.2	0.34	0.34	26.4	36.4
58: 104924	0.03	<0.01	<0.01	0.85	101.2	0.02	<0.05	32.2	44.5
59: 104925	0.03	<0.01	<0.01	3.48	100.8	0.29	0.28	27.9	38.5
60: 104926	0.04	0.01	<0.01	3.85	100.1	1.20	1.06	24.3	33.6
61: 104927	0.11	0.04	0.03	8.59	99.3	17.6	16.4	8.6	11.9
62: 104928	0.12	0.05	0.03	10.1	99.7	0.07	0.07	0.9	1.3
63-DUP: 104887	0.04	<0.01	<0.01	18.3	100.6	0.32	0.28	2.4	3.3



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**LR Report : CA03579-NOV11**

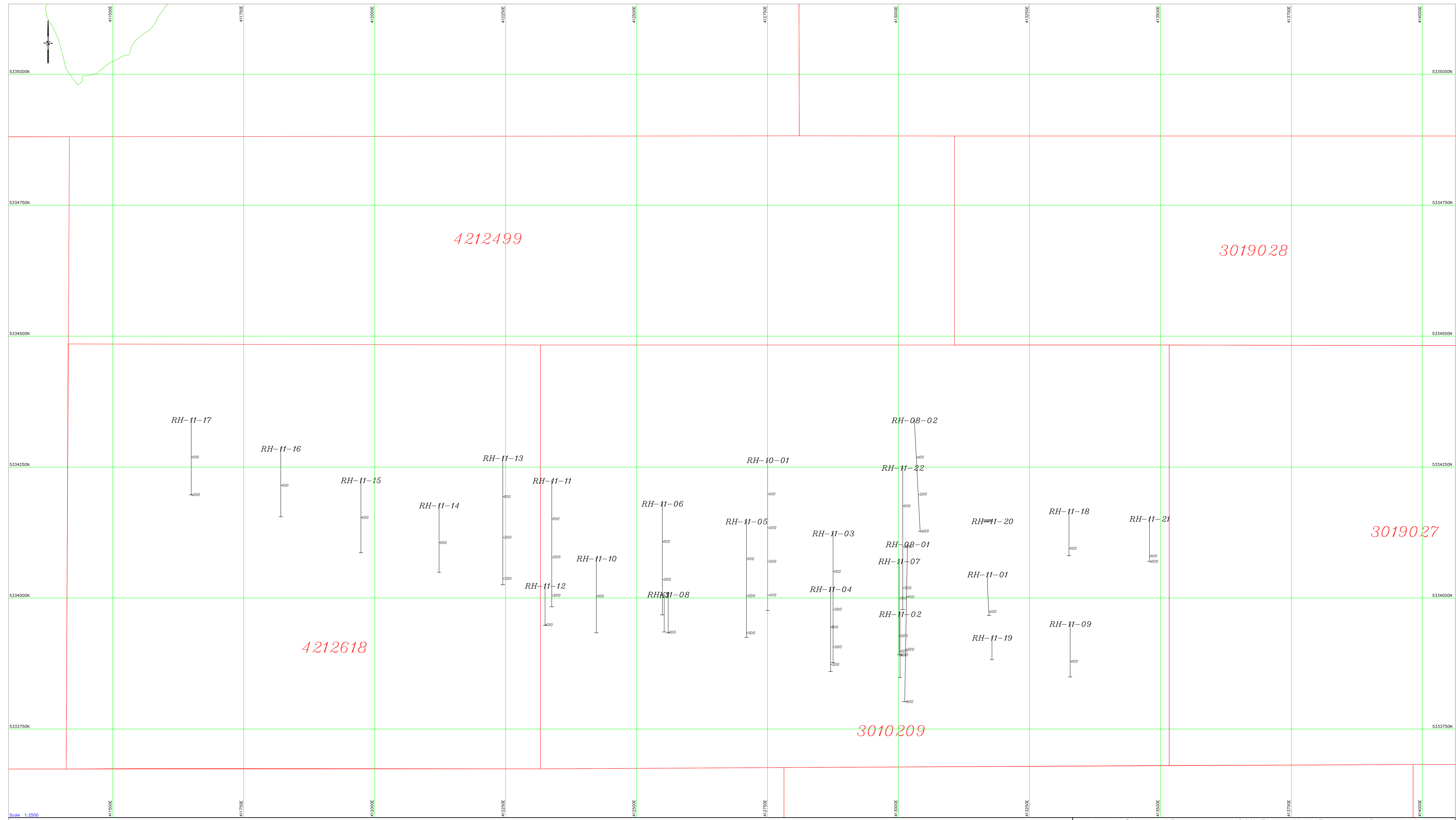
Sample ID	SiO2 %	Al2O3 %	Fe2O3 %	MgO %	CaO %	Na2O %	K2O %	TiO2 %	P2O5 %
64-DUP: 104907	42.0	0.18	40.6	2.19	0.61	< 0.01	0.02	< 0.01	0.07
65-DUP: 104926	50.3	0.49	42.5	1.22	1.14	< 0.01	< 0.01	0.02	0.09
66-REP: 104917	39.2	0.62	38.1	3.04	1.15	< 0.01	0.03	0.03	0.10

Sample ID	MnO %	Cr2O3 %	V2O5 %	LOI %	Sum %	S %	S= %	Magnetic Fe Fe %	Fe3O4 %
64-DUP: 104907	0.04	0.01	< 0.01	15.5	101.2	0.08	0.08	8.0	11.0
65-DUP: 104926	0.03	< 0.01	< 0.01	3.79	99.6	1.20	1.10	24.4	33.7
66-REP: 104917	0.10	0.01	< 0.01	18.0	100.4	0.14	0.11	3.0	4.2

Control Quality Analysis - Not suitable for commercial exchange

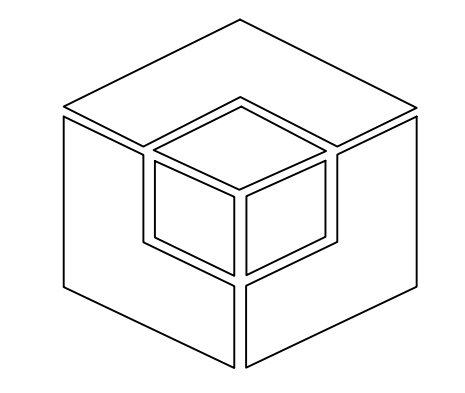
*April Rice*  
*Project Coordinator*

**Email:** freeman.smith@roguemining.com; kevinmontgomery@persona.ca;



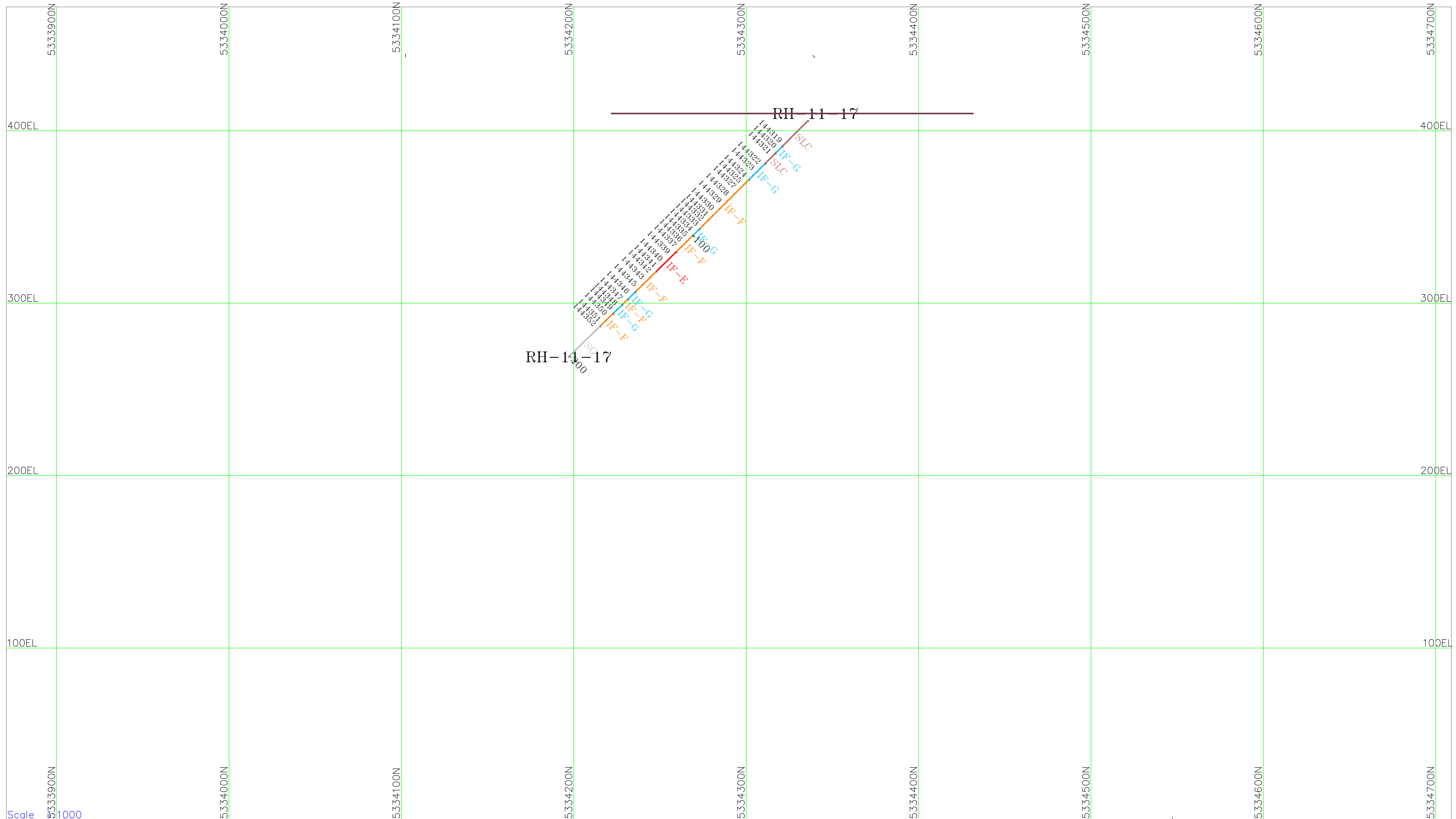
Scale 1:2500

MAP I SURFACE PLAN OF THE 2011 RADIO HILL PROPERTY DRILL HOLES



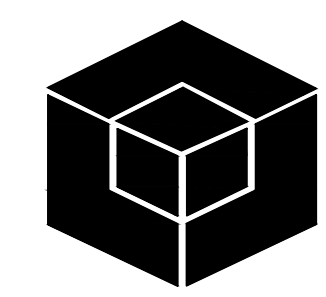
Radio Hill Project		PLAN VIEW	
SCALE: 1:2500			
JUNE 17, 2012			



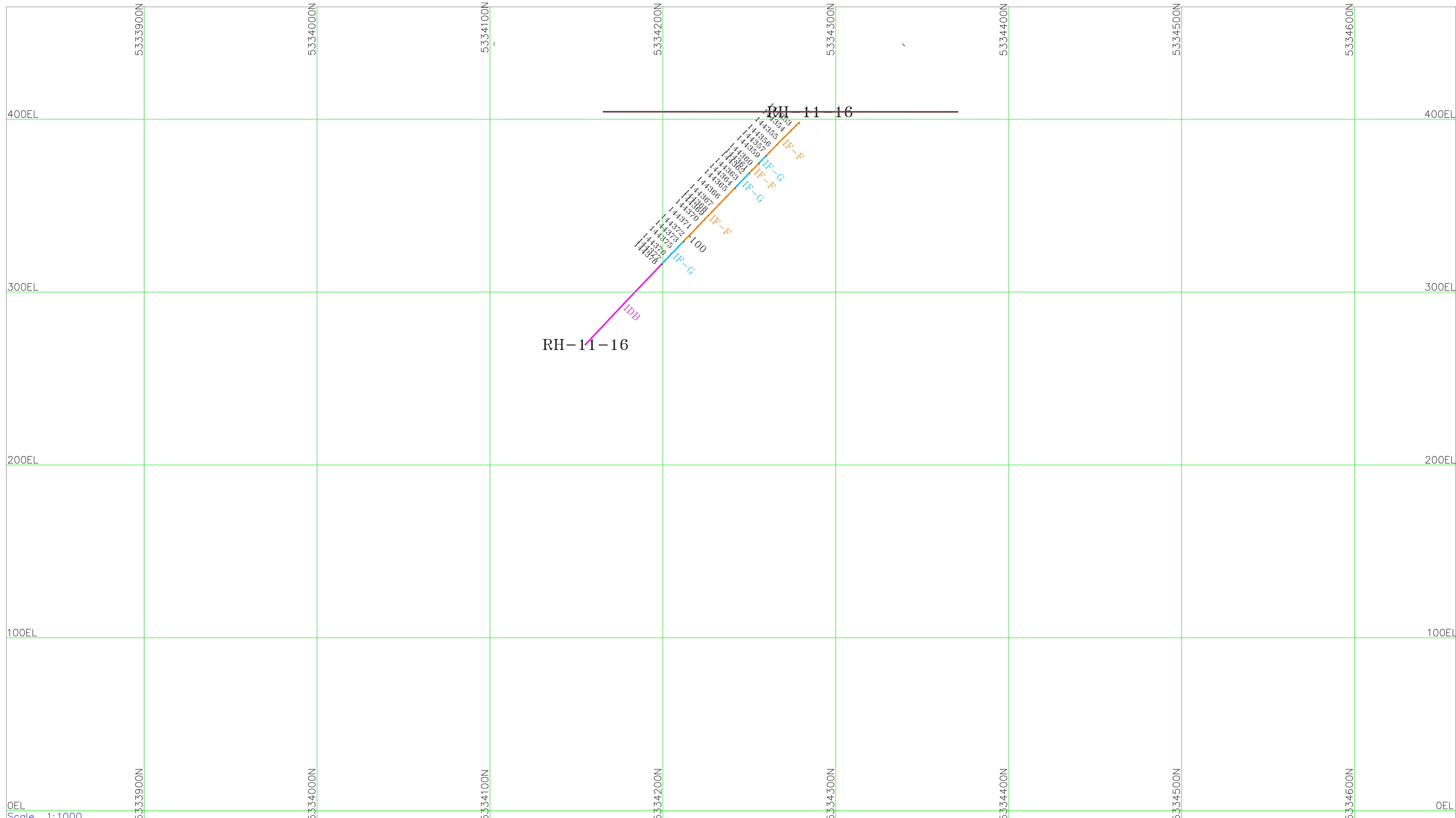


Scale 1:1000

FE FORMATION - E	ARGILLITE	KOMATIITE
FE FORMATION - F	MUDSTONE	BRECCIA
FE FORMATION - G	CHERT	FAULT
FE FORMATION - H	INT. DYKE - DIABASE	OXIDATION
LEAN CHERT	INT. DYKE - DIORITE	OVERBURDEN
GREYWACKE	BASALT	

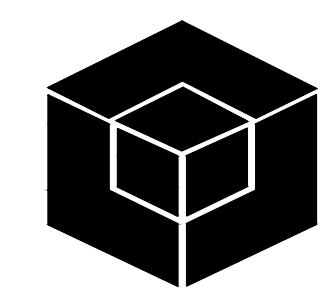


<b>ROGUE IRON ORE CORP.</b>	
looking west at Azimuth 270	
Radio Hill Project	<b>SECTION 1650 E</b>
SCALE 1:1000	
JUNE 19, 2012	

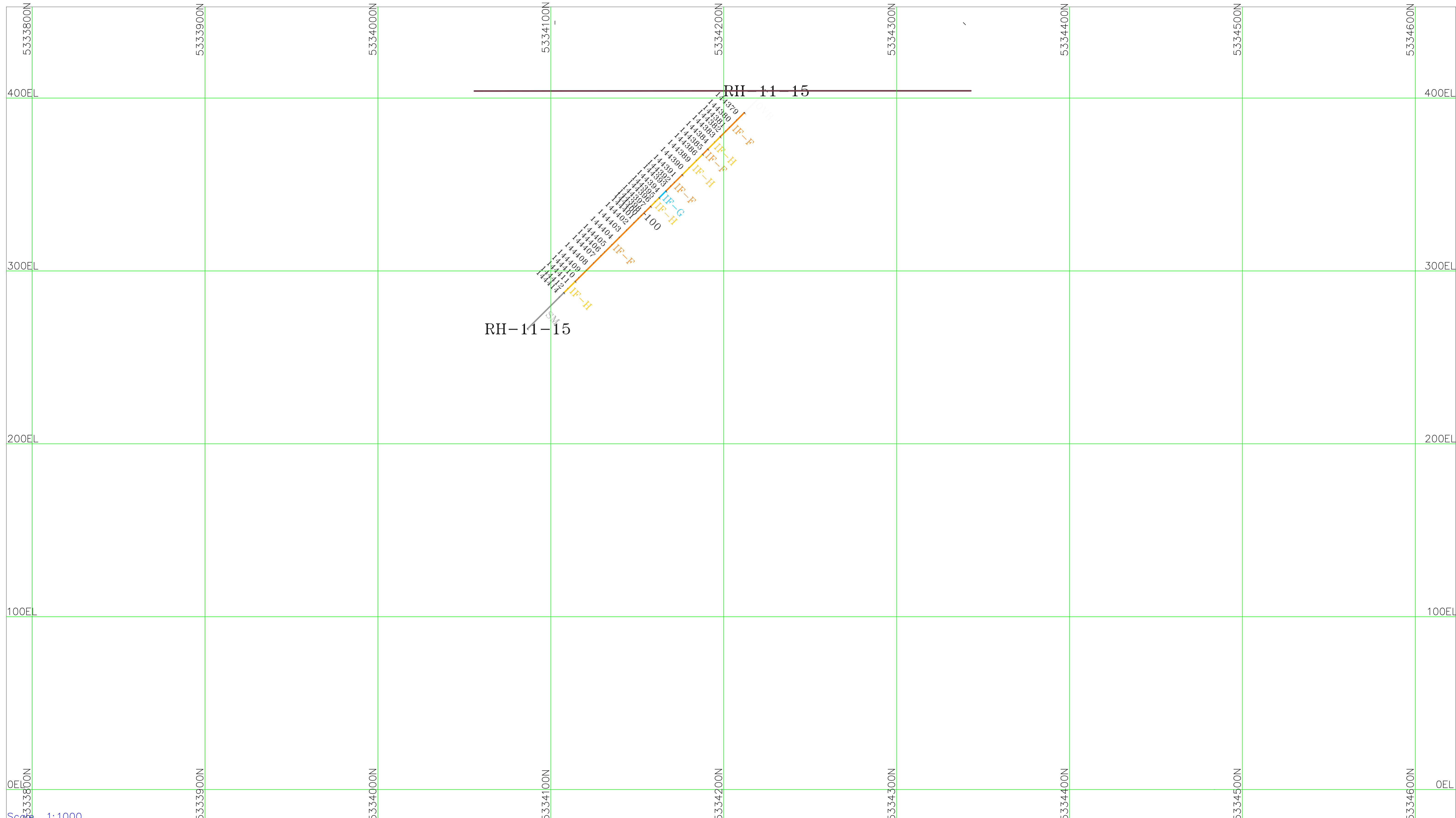


Scale 1:1000

FE FORMATION - E	ARGILLITE	KOMATIITE	
FE FORMATION - F	MUDSTONE	BRECCIA	
FE FORMATION - G	CHERT	FAULT	
FE FORMATION - H	INT. DYKE - DIABASE	OXIDATION	
LEAN CHERT	INT. DYKE - DIORITE	OVERBURDEN	
GREYWACKE	BASALT		

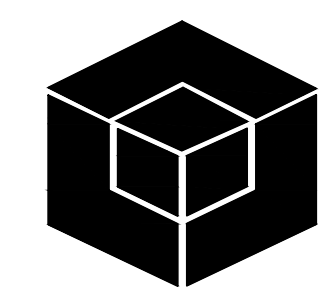


ROGUE IRON ORE CORP.	
looking west at Azimuth 270	
Radio Hill Project	SECTION 1800 E
SCALE 1:1000	
JUNE 19, 2012	



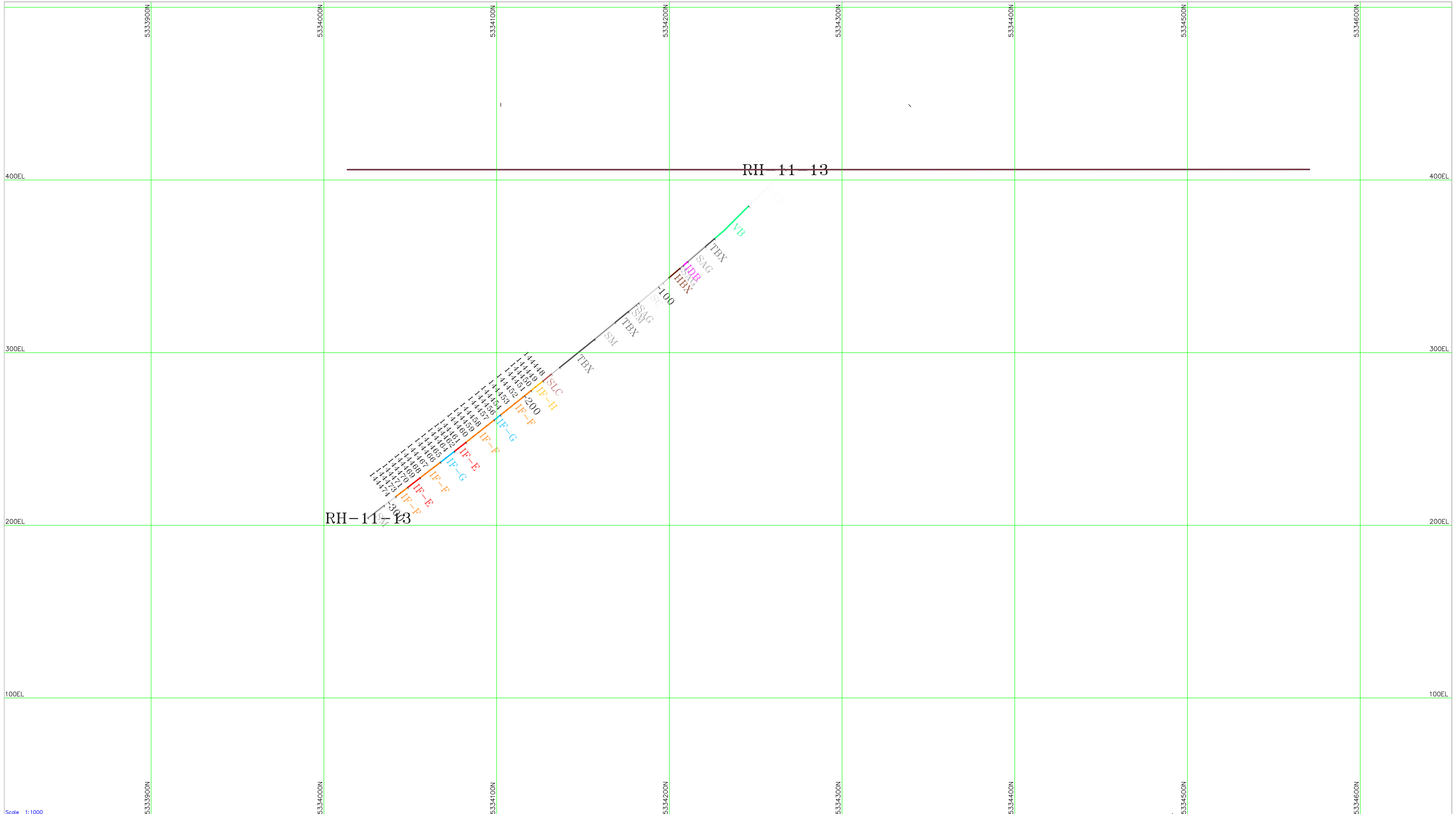
Scale 1:1000

FE FORMATION - E	ARGILLITE	KOMATIITE
FE FORMATION - F	MUDSTONE	BRECCIA
FE FORMATION - G	CHERT	FAULT
FE FORMATION - H	INT. DYKE - DIABASE	OXIDATION
LEAN CHERT	INT. DYKE - DIORITE	OVERBURDEN
GREYWACKE	BASALT	



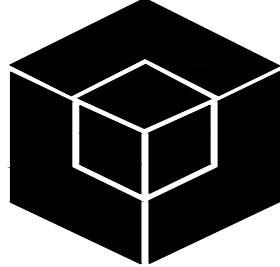
ROGUE IRON ORE CORP.	
looking west at Azimuth 270	
Radio Hill Project	SECTION 1950 E
SCALE 1:1000	
JUNE 19, 2012	

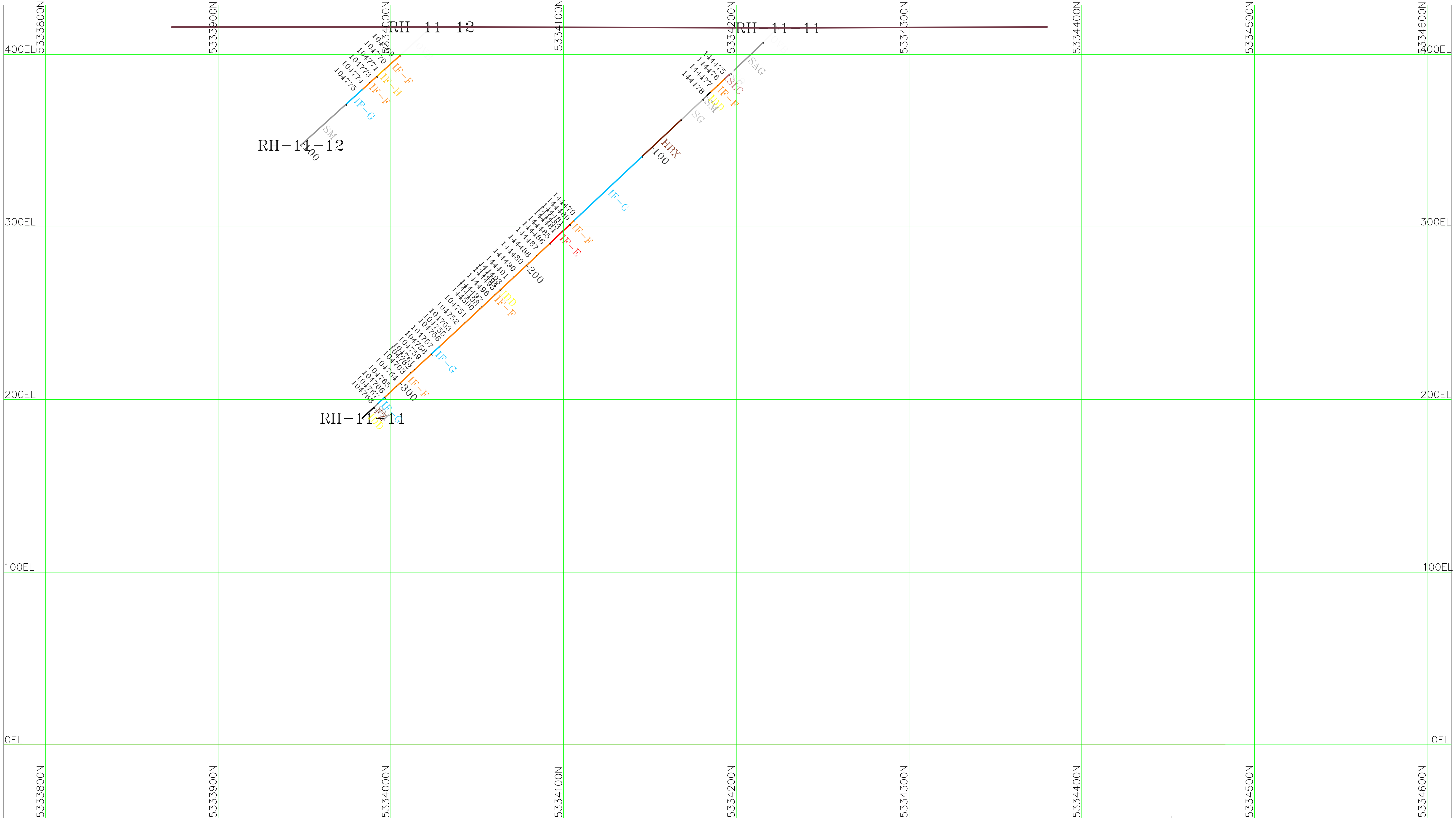




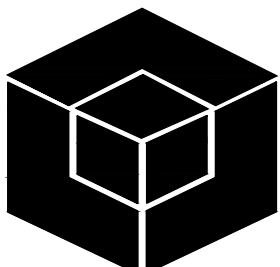
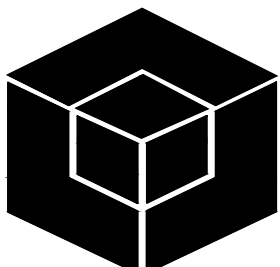
Scale 1:1000

FE FORMATION - E	ARGILLITE	KOMATIITE
FE FORMATION - F	MUDSTONE	BRECCIA
FE FORMATION - G	CHERT	FAULT
FE FORMATION - H	INT. DYKE - DIABASE	OXIDATION
LEAN CHERT	INT. DYKE - DIORITE	OVERBURDEN
GREYWACKE	BASALT	

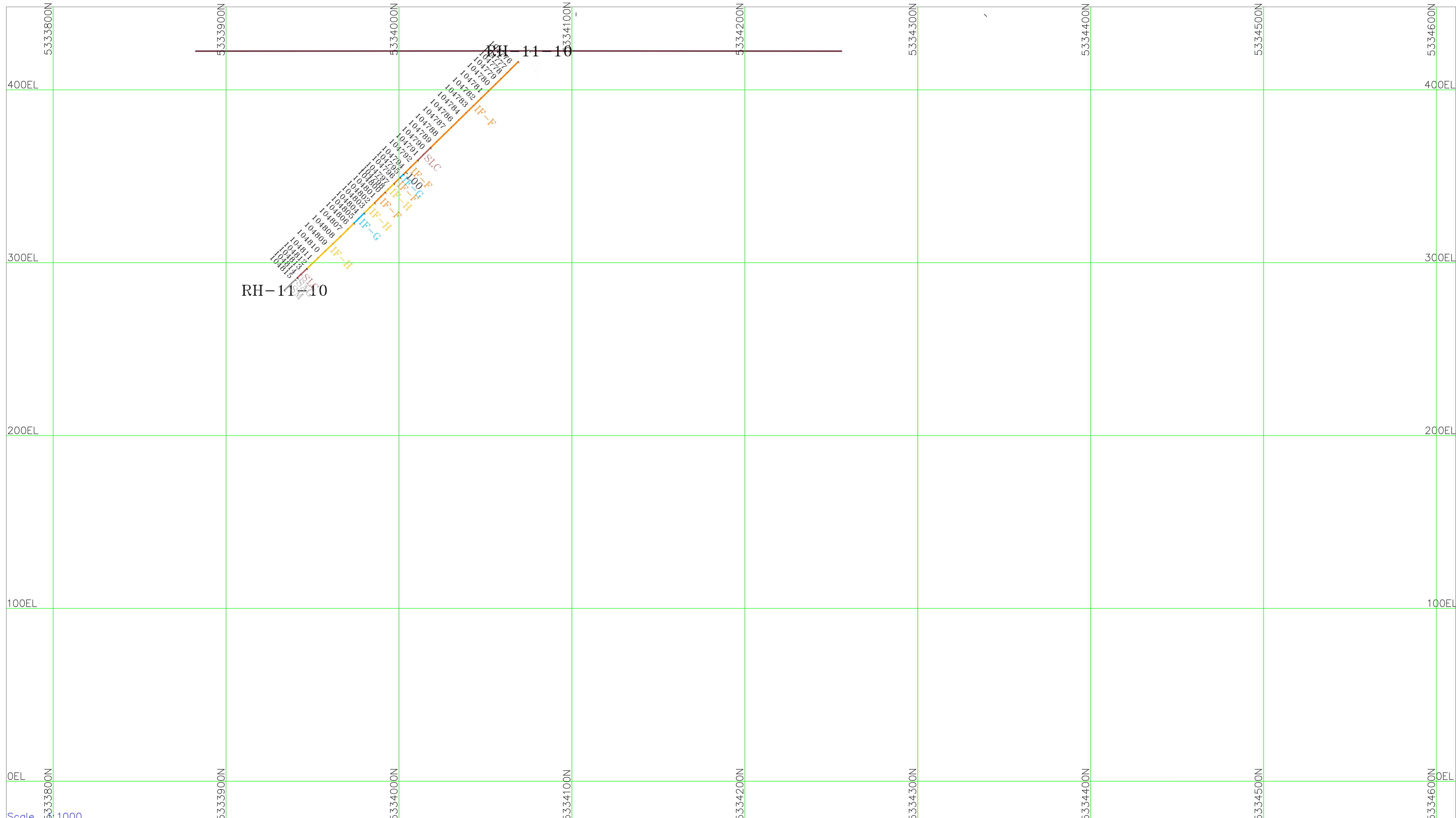
		<b>ROGUE IRON ORE CORP.</b> looking west at Azimuth 270	
		Radio Hill Project SCALE 1:1000 JUNE 19, 2012	<b>SECTION 2225 E</b>



FE FORMATION - E	ARGILLITE	KOMATIITE
FE FORMATION - F	MUDSTONE	BRECCIA
FE FORMATION - G	CHERT	FAULT
FE FORMATION - H	INT. DYKE - DIABASE	OXIDATION
LEAN CHERT	INT. DYKE - DIORITE	OVERBURDEN
GREYWACKE	BASALT	

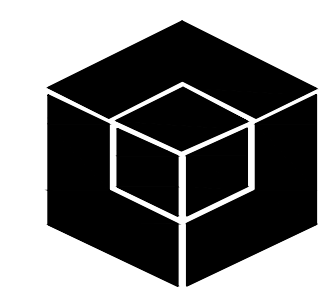
		<b>ROGUE IRON ORE CORP.</b>	
		looking west at Azimuth 270	
		Radio Hill Project	<b>SECTION 2325 E</b>
		SCALE 1:1000	
		JUNE 19, 2012	



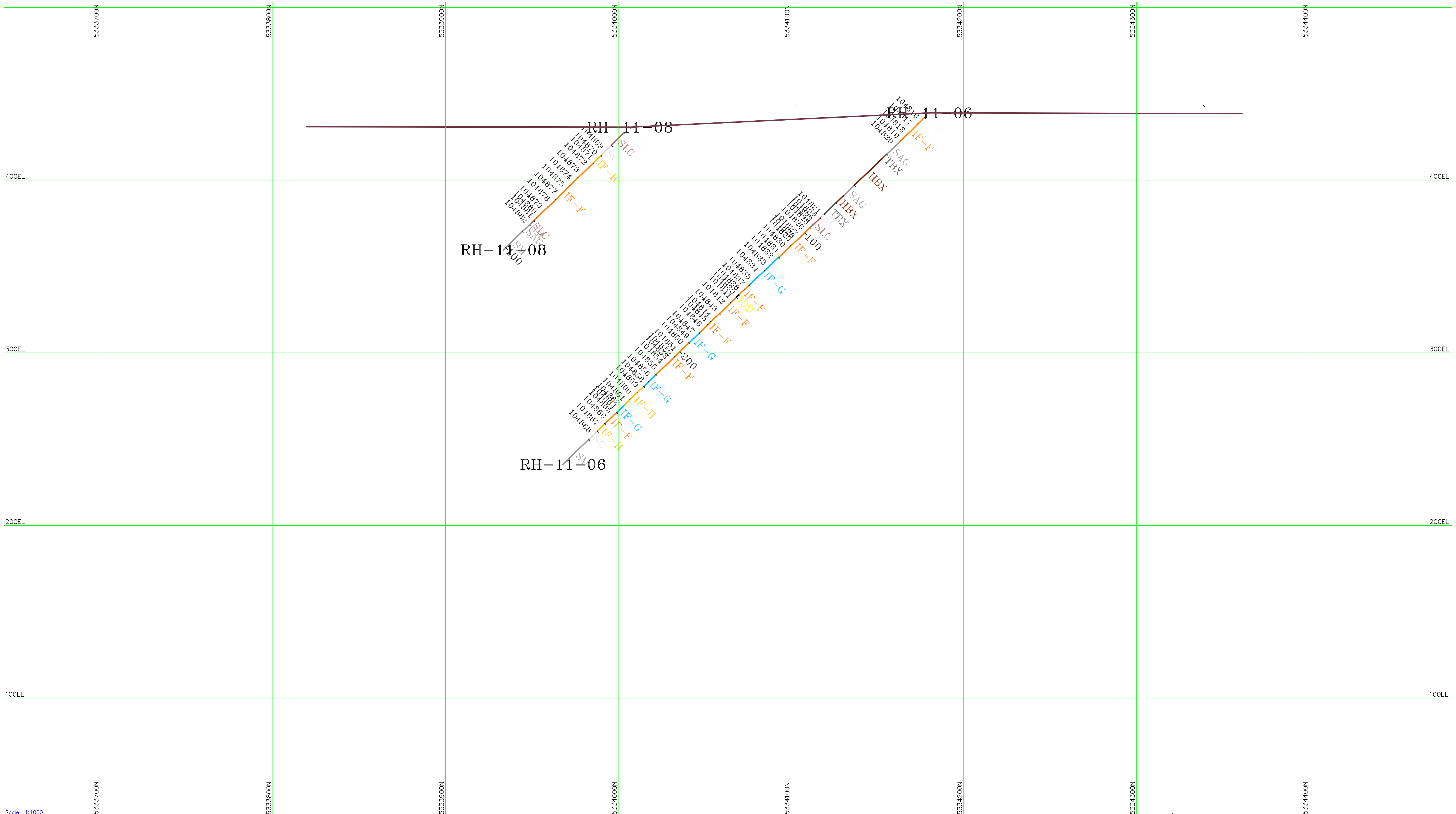


Scale 1:1000

FE FORMATION - E	ARGILLITE	KOMATIITE
FE FORMATION - F	MUDSTONE	BRECCIA
FE FORMATION - G	CHERT	FAULT
FE FORMATION - H	INT. DYKE - DIABASE	OXIDATION
LEAN CHERT	INT. DYKE - DIORITE	OVERBURDEN
GREYWACKE	BASALT	



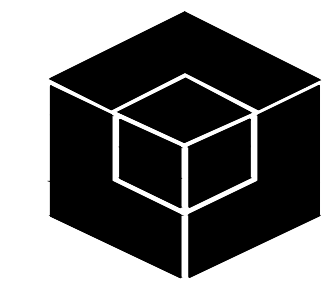
<b>ROGUE IRON ORE CORP.</b>	
looking west at Azimuth 270	
Radio Hill Project	<b>SECTION 2410 E</b>
SCALE 1:1000	
JUNE 19, 2012	



Scale 1:1000

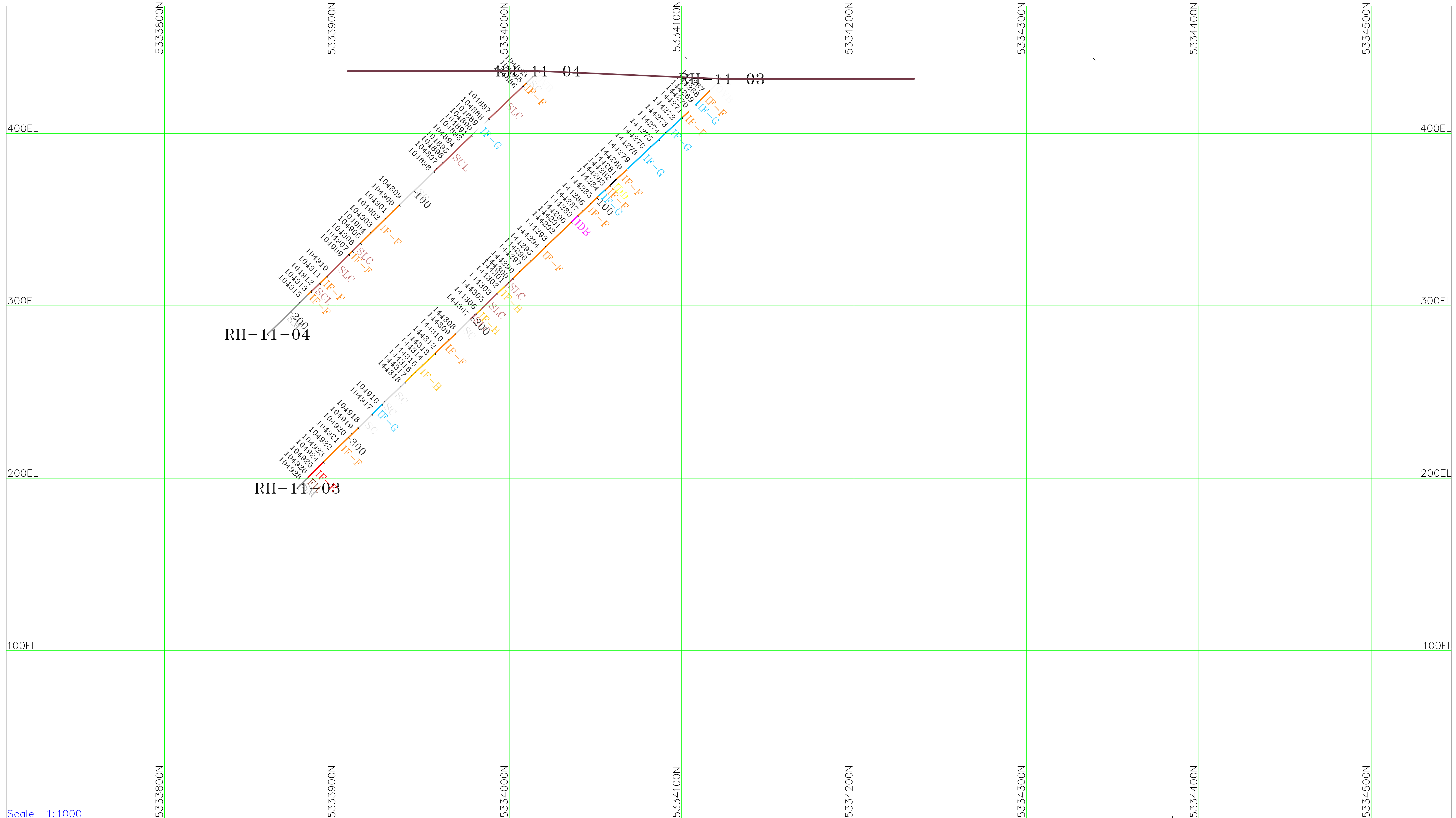
FE FORMATION - E	ARGILLITE	KOMATIITE
FE FORMATION - F	MUDSTONE	BRECCIA
FE FORMATION - G	CHERT	FAULT
FE FORMATION - H	INT. DYKE - DIABASE	OXIDATION
LEAN CHERT	INT. DYKE - DIORITE	OVERBURDEN
GREYWACKE	BASALT	

ROGUE IRON ORE CORP.	
looking west at Azimuth 270	
Radio Hill Project	SECTION 2560 E
SCALE 1:1000	
JUNE 19, 2012	



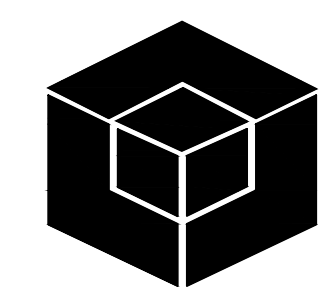




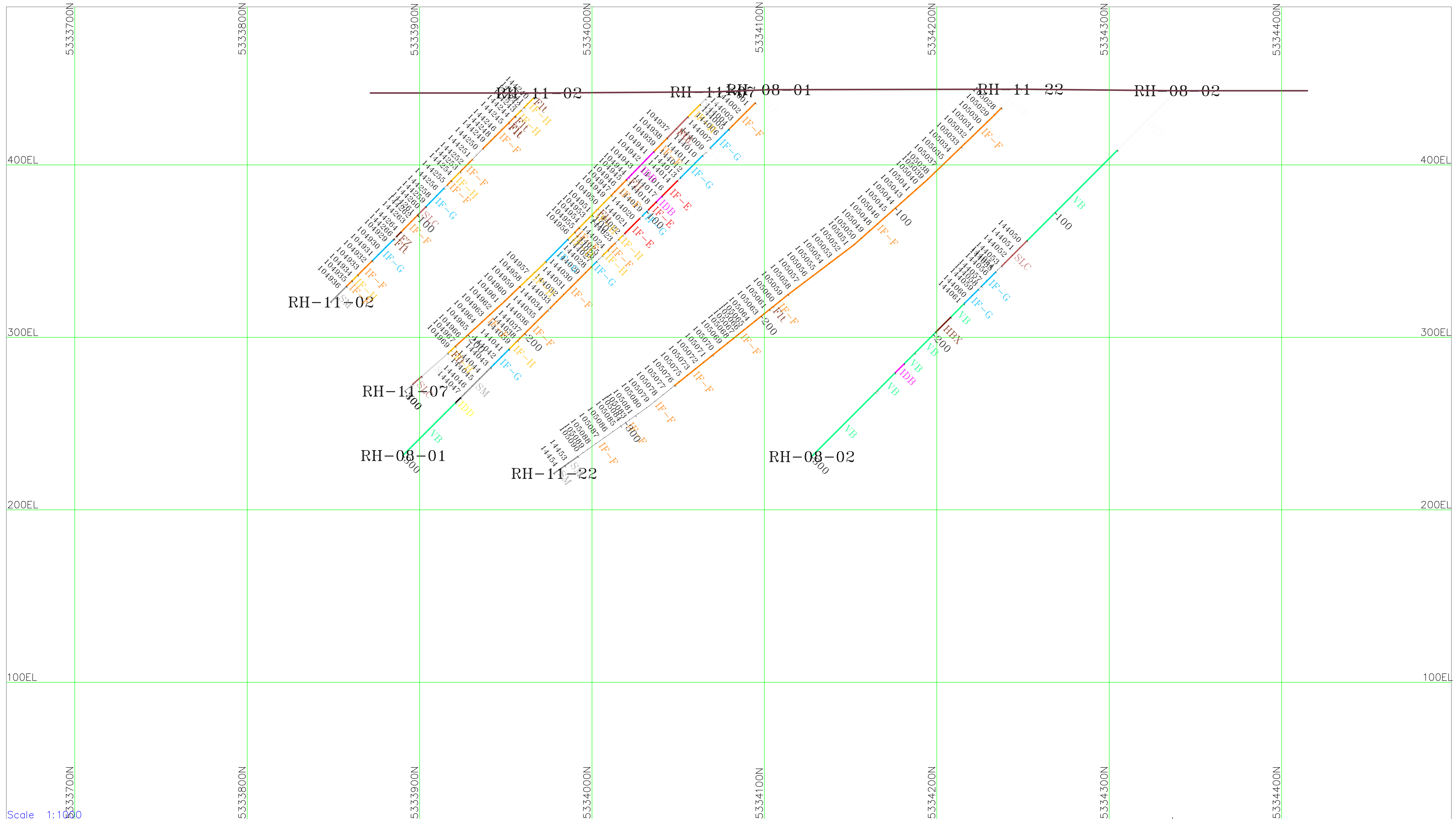


Scale 1:1000

FE FORMATION - E	ARGILLITE	KOMATIITE
FE FORMATION - F	MUDSTONE	BRECCIA
FE FORMATION - G	CHERT	FAULT
FE FORMATION - H	INT. DYKE - DIABASE	OXIDATION
LEAN CHERT	INT. DYKE - DIORITE	OVERBURDEN
GREYWACKE	BASALT	

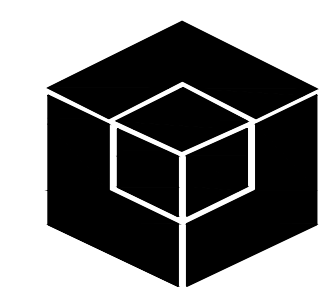


ROGUE IRON ORE CORP.	
looking west at Azimuth 270	
Radio Hill Project	SECTION 2870 E
SCALE 1:1000	
JUNE 19, 2012	



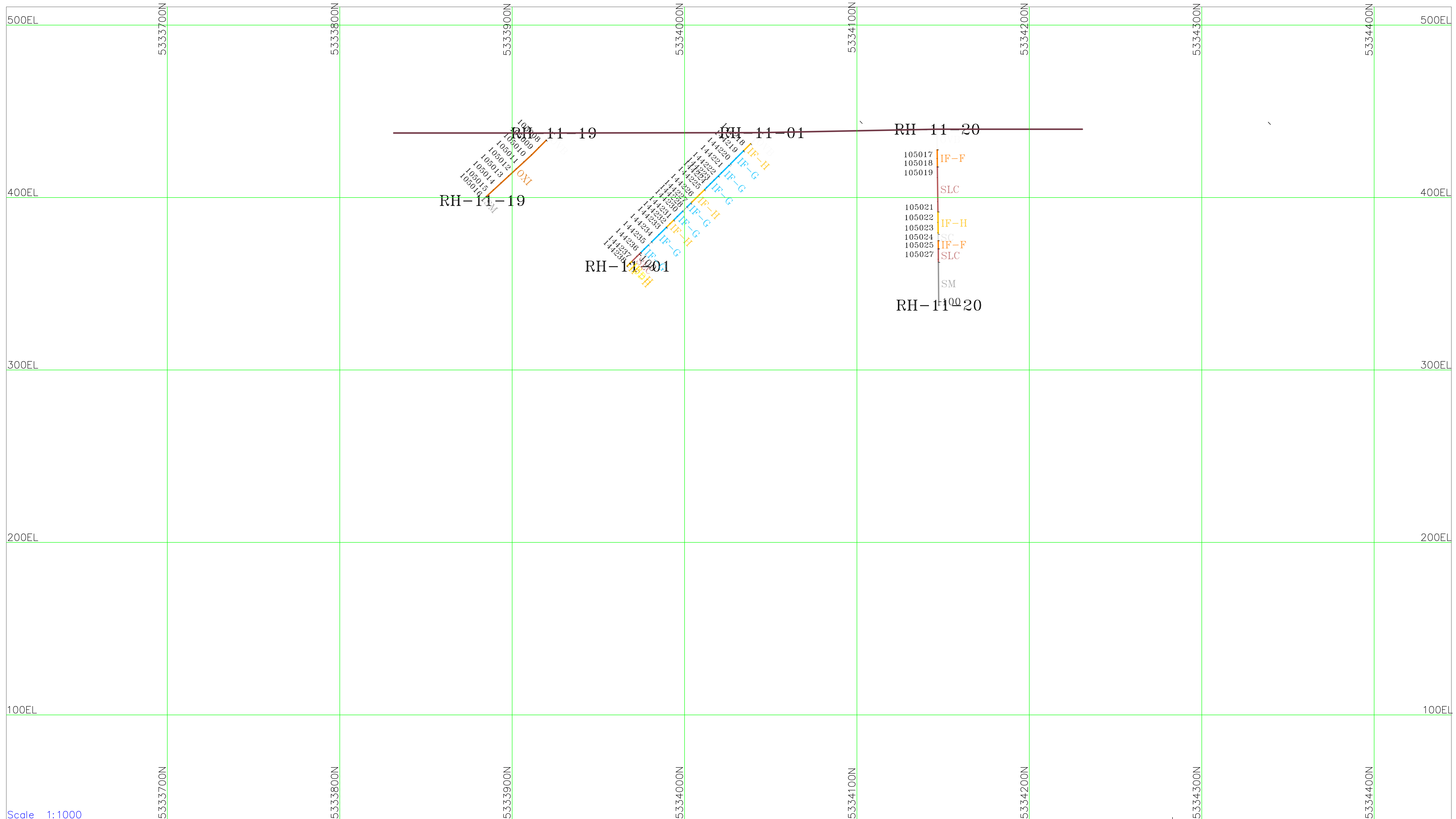
Scale 1:1000

FE FORMATION - E	ARGILLITE	KOMATIITE
FE FORMATION - F	MUDSTONE	BRECCIA
FE FORMATION - G	CHERT	FAULT
FE FORMATION - H	INT. DYKE - DIABASE	OXIDATION
LEAN CHERT	INT. DYKE - DIORITE	OVERBURDEN
GREYWACKE	BASALT	



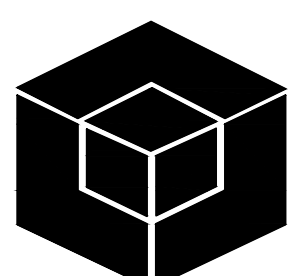
ROGUE IRON ORE CORP.	
looking west at Azimuth 270	
Radio Hill Project	SECTION 3010 E
SCALE 1:1000	
JUNE 19, 2012	



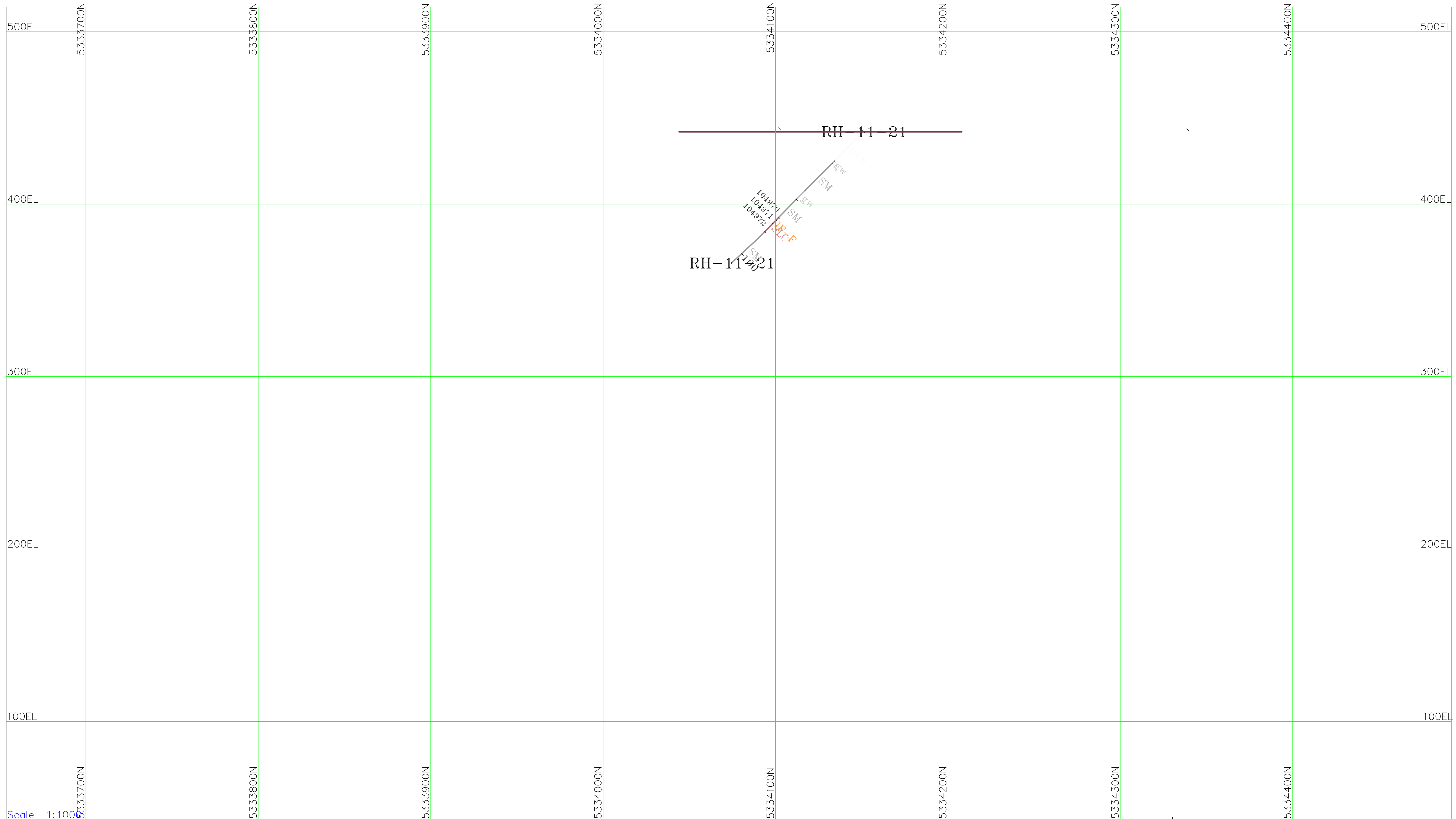


Scale 1:1000

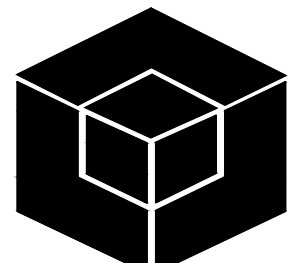
FE FORMATION - E	ARGILLITE	KOMATIITE
FE FORMATION - F	MUDSTONE	BRECCIA
FE FORMATION - G	CHERT	FAULT
FE FORMATION - H	INT. DYKE - DIABASE	OXIDATION
LEAN CHERT	INT. DYKE - DIORITE	OVERBURDEN
GREYWACKE	BASALT	

		<b>ROGUE IRON ORE CORP.</b>	
		looking west at Azimuth 270	
		Radio Hill Project	<b>SECTION 3180 E</b>
		SCALE 1:1000	
		JUNE 19, 2012	





FE FORMATION - E	ARGILLITE	KOMATIITE
FE FORMATION - F	MUDSTONE	BRECCIA
FE FORMATION - G	CHERT	FAULT
FE FORMATION - H	INT. DYKE - DIABASE	OXIDATION
LEAN CHERT	INT. DYKE - DIORITE	OVERBURDEN
GREYWACKE	BASALT	

		<b>ROGUE IRON ORE CORP.</b>	
		looking west at Azimuth 270	
		Radio Hill Project	<b>SECTION 3480 E</b>
		SCALE 1:1000	
		JUNE 19, 2012	