

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

**Assessment Report**  
**Title Page and Summary**

TYPE OF REPORT [type of survey(s)]: Technical

TOTAL COST: \$2,054,218.96

AUTHOR(S): A.R. Pollmer, P.Geo.

SIGNATURE(S): 



NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): 11-1610431-0324, March 24, 2011

YEAR OF WORK: 2011

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

PROPERTY NAME: Redford

CLAIM NAME(S) (on which the work was done): Easter 1-20, Draw 7-9, Tse Kemin 10-13, Gege, Jaya and Brynnor Fraction.

COMMODITIES SOUGHT: Iron

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: \_\_\_\_\_

MINING DIVISION: Alberni

NTS/BCGS: 92F/03, 04 & 92C/13, 14

LATITUDE: 49 ° 27 ' \_\_\_\_\_ " LONGITUDE: 125 ° 26 ' \_\_\_\_\_ " (at centre of work)

OWNER(S):

1) Logan Resources Ltd.

2) Ridgemont Iron Ore Corp.

MAILING ADDRESS:

1240-1140 West Pender St. Vancouver, BC, V6E 4G1

1240-1140 West Pender St. Vancouver, BC, V6E 4G1

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

1) Ridgemont Iron Ore Corp.

2) \_\_\_\_\_

MAILING ADDRESS:

Above

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

Magnetic skarn mineralization hosted in the Quatsino Formation limestone/marble.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: Event number 5120790

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping			
Photo interpretation			
<b>GEOPHYSICAL (line-kilometres)</b>			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
Soil			
Silt			
Rock			
Other			
<b>DRILLING (total metres; number of holes, size)</b>			
Core 10,234.58 metres in 61 holes, HQ and NQ		404313	\$1,503,104.10
Non-core			
<b>RELATED TECHNICAL</b>			
Sampling/assaying Satmagan		404313	\$51,631.79
Petrographic			
Mineralographic			
Metallurgic			
<b>PROSPECTING (scale, area)</b>			
<b>PREPARATORY / PHYSICAL</b>			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres) trail			
Trench (metres)			
Underground dev. (metres)			
Other			
<b>TOTAL COST:</b>			<b>\$1,554,735.89</b>

**Ridgemont Iron Ore Corp.**

**2012 DIAMOND DRILLING REPORT ON THE  
REDFORD PROPERTY**

**Claims:**

Easter 1-20, Draw 7-9, Tse Kemin 10-13, Gege, Jaya and Brynnor Fraction

**Location:**

Alberni Mining Division

NTS 92F/03, 04 & 92C/13, 14  
NAD 83

Latitude: 49°27' N, Longitude: 125°26' W  
UTM Zone 10; 5435650 N, 322215 E

**BC Geological Survey  
Assessment Report  
33618**

**Project Period:**

May 2011 to December 2011

**Owner and Operator:**

Logan Resources Ltd.  
1240-1140 West Pender Street  
Vancouver, B.C V6E 4G1

Ridgemont Iron Ore Corp.  
1240-1140 West Pender Street  
Vancouver, B.C V6E 4G1

**Author:**

A.R. Pollmer, P.Geo.

**Submitted:**

May 9, 2012

## **TABLE OF CONTENTS**

<b>1.0 INTRODUCTION .....</b>	<b>1</b>
<b>1.1 Property Description and Location .....</b>	<b>1</b>
<b>1.2 Accessibility .....</b>	<b>5</b>
<b>1.3 Climate and Physiography .....</b>	<b>5</b>
<b>1.4 Local Resources and Infrastructure .....</b>	<b>6</b>
<b>2.0 GEOLOGICAL SETTING .....</b>	<b>6</b>
<b>2.1 Regional Geological Setting.....</b>	<b>6</b>
<b>2.2 Property Geology .....</b>	<b>7</b>
<b>2.3 Deposit Types and Mineralization .....</b>	<b>9</b>
<b>3.0 DEPOSIT HISTORY .....</b>	<b>9</b>
<b>3.1 Geophysical Survey 2011 .....</b>	<b>11</b>
<b>3.2 Diamond Drilling 2008.....</b>	<b>11</b>
<b>4.0 DIAMOND DRILLING .....</b>	<b>12</b>
<b>4.1 East Zone Drilling.....</b>	<b>12</b>
<b>4.2 North Zone Drilling.....</b>	<b>12</b>
<b>4.4 Drill Program Specifics .....</b>	<b>15</b>
<b>4.5 Core Handling, Sampling Protocol .....</b>	<b>15</b>
<b>4.6 Drill Hole Surveys.....</b>	<b>16</b>
<b>4.7 Core Lithologies .....</b>	<b>17</b>
<b>4.8 Iron Analysis .....</b>	<b>19</b>
<b>5.0 DISCUSSION AND CONCLUSIONS .....</b>	<b>19</b>
<b>6.0 RECOMMENDATIONS .....</b>	<b>20</b>
<b>7.0 REFERENCES .....</b>	<b>20</b>

## **LIST OF FIGURES**

**1.1.1 Redford Property Location Map**

**1.1.2 Redford Claims Map**

**2.2.1 Property Geology Map**

**4.1 Drill Hole Pad Location Map**

**4.2 Drill Hole Collar Location Map**

## **LIST OF TABLES**

**Table 1.1.1 List of Claims**

## **LIST OF APPENDICES**

**Appendix A – Cost Statement**

**Appendix B – List of Software**

**Appendix C – Drilling Results**

**Appendix D – Drill Logs**

**Appendix E – Cross Sections**

**Appendix F – Statement of Qualifications**

## **1.0 INTRODUCTION**

The Redford property is located near the west coast of Vancouver Island and was previously staked as a gold resource under Logan Resources Ltd. The property's current exploration interest is centred on iron skarn deposits and the remnant magnetite deposit of the old Brynnor Mine. On July 27<sup>th</sup> 2010, Ridgemont Iron Ore Corp signed an option agreement with Logan Resources Ltd and initiated a broad-scale exploration on the entire claim group to locate and evaluate further magnetite occurrences.

An airborne gravity and magnetic survey completed in the fall of 2010 outlined several magnetic anomalies that were followed up with ground geophysical surveys and geological mapping which forms the basis of a separate assessment report filed with the Government of British Columbia. This document reports on the diamond drilling program completed by Ridgemont on the Redford property during the spring, summer and fall of 2011. Information in this report was derived from publically available assessment reports filed with the Government of British Columbia, internal reports from earlier programs which were not filed for assessment and government maps and publications.

### ***1.1 Property Description and Location***

The Redford property is situated on the west coast of Vancouver Island, British Columbia, Canada, 22 km northeast of Ucluelet centered at NAD 83 latitude 49°02'30" North and longitude 125°26'00" West UTM zone 10 5434600 N, 320500 E on NTS map sheets 92C/13.14 and 92F/03.04 within the Alberni Mining Division (Figure 1.1.1) and within the Regional District of Alberni Clayoquat (Wastenays, 2008). It is located south-east of Kennedy Lake within the Mackenzie range.

The property consists of 30 claims with a total land area of 119.86 km<sup>2</sup> or 19,985.65 ha (Figure 1.1.2). According to the British Columbia Ministry of Energy, Mines and Resources the 26 claims owned by Logan Resources Ltd. include Easter 1 to 20, Draw 7 to 9, Gege, Jaya and Brynnor Fraction. The remaining 4 consisting of Tse Kemin 10 to 13 are owned by Ridgemont Iron Ore Corp. Respective tenure numbers, areas and good-to dates are shown in Table 1.1.1.



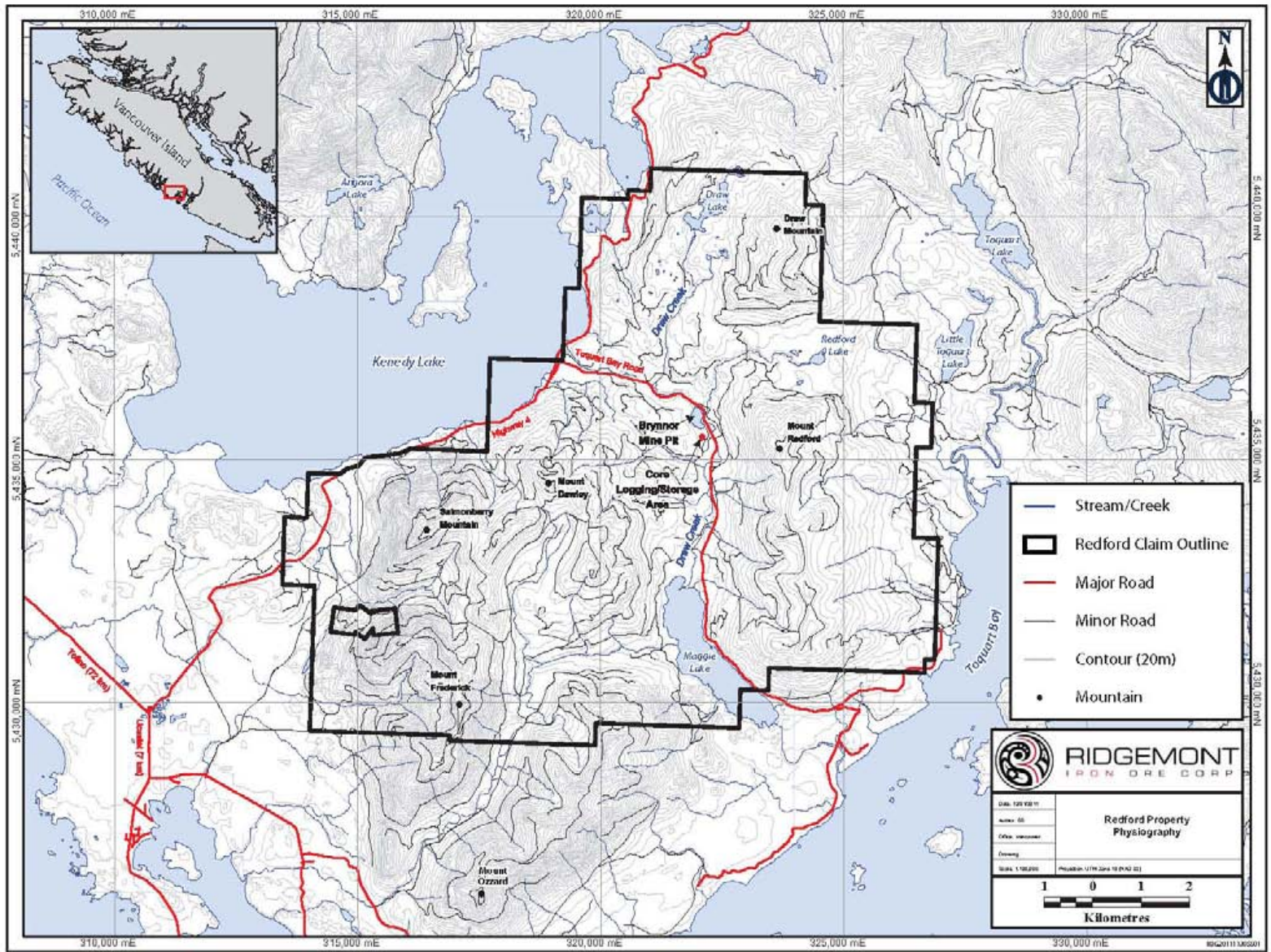


Figure 1.1.1: Redford Property Location Map

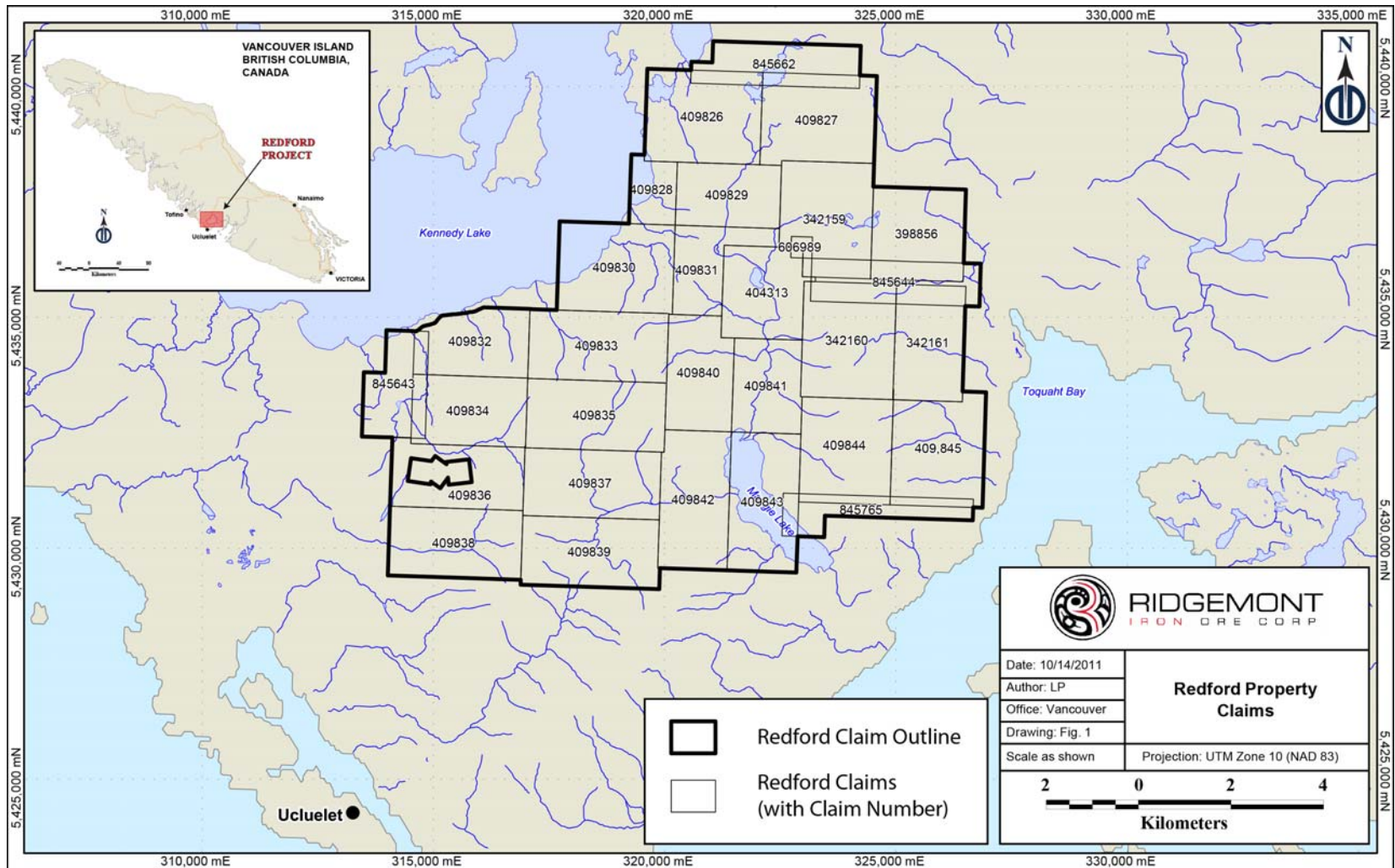


Figure 1.1.2: Redford Property Claims Map



<b>Tenure #</b>	<b>Claim Name</b>	<b>Current Owner/ Operator</b>	<b>Good-to Date</b>	<b>Area (ha)</b>
606989	BRYNNOR FRACTION	Logan Resources Ltd.	03/07/2020	21.17
342159	DRAW 7	Logan Resources Ltd.	05/11/2011	500
342160	DRAW 8	Logan Resources Ltd.	05/11/2011	500
342161	DRAW 9	Logan Resources Ltd.	05/11/2011	375
409826	EASTER 1	Logan Resources Ltd.	05/11/2011	500
409827	EASTER 2	Logan Resources Ltd.	05/11/2011	500
409828	EASTER 3	Logan Resources Ltd.	05/11/2011	150
409829	EASTER 4	Logan Resources Ltd.	05/11/2011	375
409830	EASTER 5	Logan Resources Ltd.	05/11/2011	500
409831	EASTER 6	Logan Resources Ltd.	05/11/2011	500
409832	EASTER 7	Logan Resources Ltd.	05/11/2011	375
409833	EASTER 8	Logan Resources Ltd.	05/11/2011	450
409834	EASTER 9	Logan Resources Ltd.	05/11/2011	375
409835	EASTER 10	Logan Resources Ltd.	05/11/2011	450
409836	EASTER 11	Logan Resources Ltd.	05/11/2011	450
409837	EASTER 12	Logan Resources Ltd.	05/11/2011	450
409838	EASTER 13	Logan Resources Ltd.	05/11/2011	450
409839	EASTER 14	Logan Resources Ltd.	05/11/2011	450
409840	EASTER 15	Logan Resources Ltd.	05/11/2011	375
409841	EASTER 16	Logan Resources Ltd.	05/11/2011	375
409842	EASTER 17	Logan Resources Ltd.	05/11/2011	450
409843	EASTER 18	Logan Resources Ltd.	05/11/2011	450
409844	EASTER 19	Logan Resources Ltd.	05/11/2011	500
409845	EASTER 20	Logan Resources Ltd.	05/11/2011	500
404313	GEGE	Logan Resources Ltd.	05/11/2011	400
398856	JAYA	Logan Resources Ltd.	05/11/2011	400
845643	TSE KEMIN 10	Ridgemont Iron Ore Corp	07/02/2012	275.36
845644	TSE KEMIN 11	Ridgemont Iron Ore Corp	07/02/2012	338.72
845662	TSE KEMIN 12	Ridgemont Iron Ore Corp	07/02/2012	317.32
845765	TSE KEMIN 13	Ridgemont Iron Ore Corp	08/02/2012	233.08

**Table 1.1.1: Redford Property claims list**

## **1.2 Accessibility**

The Alberni Highway #4, also known as the Pacific Rim highway was the primary access to the Redford property and crosses the MacKenzie range between Port Alberni and the towns of Tofino and Ucluelet (Figure 1.1.1). The Toquart bay junction on highway #4, situated along the south-east side of Kennedy Lake, is 22 km from Ucluelet and 80 km to Port Alberni. It provided access to the Maggie Lake FSR which served as the main access to the property. It is a well-maintained, all-season gravel road that is used mainly for logging and tourist access to Toquart Bay. The Mussel Beach turnoff on Peninsula Road between Ucluelet and highway #4 provided additional access to the southern and west-central areas of the property. An extensive system of logging roads also provided access to most of the claims, however many of the roads were deactivated or are overgrown and washed out.

## **1.3 Climate and Physiography**

The area falls within a hyper-marine precipitation climate characterized by warm, moist summers with prevalent ocean fog and very wet mild winters fluctuating around the freezing point. The mean annual temperature is 8.5°C with a summer mean of 13.5°C and winter mean of 3.5°C. The annual precipitation often exceeds 3 meters in the form of rain and heavy snow accumulations at higher elevations. The mild climate can be attributed to the moderating affect of the Pacific Ocean as well as the mountains impeding the flow of cold air.

Vegetation falls within the Coastal Western Hemlock Submontane Very Wet Maritime Subzone. Forests are dominated by western hemlocks, red cedars and firs. Dense undergrowth vegetation includes huckleberry, ferns, brambles, salal, moss and abundant deadfall (Chatwin Engineering Ltd, 2009). The land is heavily forested with old growth stands to second generation re-forested cut blocks. Deciduous alder and poplar occupy the lowland valley and river basins.

The Redford claim group lies in an area comprised of two (North-south oriented) U shaped valleys and respective drainage areas consisting of Draw Creek and a western tributary that flows into Maggie Lake. The low elevation areas consist of deep glacial fluvial

lacustrine sediments overlain by blanket tills. The valleys are bordered by slopes that graduate to steep-sloped, bedrock dominated summits. Ridge summits have been glaciated and tend to be flat. The steep slopes of Draw Mountain (850m) and Redford Mountain (750m) border the eastern edge of the property and to the west the less precipitous slopes of Mount Dawley and Salmonberry Mountain. Along these undulating mountains are deeply incised gullies, some of which have recently had debris torrent failures.

The Brynnor deposit and camp site are located within the Draw Creek -Maggie Lake valley floor where the terrain is predominantly flat to very low gradient and the vegetation consists mainly of deciduous alder stands and juvenile conifers.

#### ***1.4 Local Resources and Infrastructure***

Accommodations, food and shops to purchase supplies, hardware and camp-related materials were all readily available in Ucluelet (22 road-km) and Tofino (28 road-km). Rented accommodations in Ucluelet were provided for the field staff. Roads between the claim group and local resources are paved and well maintained. The town of Port Alberni, 80 road-km north-east of the property, provides additional industrial infrastructure.

The old mine infrastructure provided an ideal location for the main camp site core description, dry and core cutting shacks, first aid trailer as well as an enclosed area for core racks.

## **2.0 GEOLOGICAL SETTING**

### ***2.1 Regional Geological Setting***

Vancouver Island along with the Queen Charlotte Islands, parts of south eastern Alaska and parts of south western Yukon belong to the Insular tectonic belt, the western most accreted subdivision of the Canadian Cordillera. The Insular belt is composed of Paleozoic and Mesozoic sedimentary, granitic and volcanic rocks that accreted onto the North American craton approximately 100 million years ago. Most of Vancouver Island is part of what is called the Wrangelia terrane and has undergone a complex history of metamorphism and folding (Yorath, 2005).

The island arc volcanic and sedimentary rocks of the Upper Devonian Sicker Group are the oldest rocks identified on the island. These are overlain by the sedimentary rocks of the Buttle Lake Group subsequently followed by a period of uplift and erosion throughout the late Permian and early Triassic periods. The late Triassic Vancouver Group volcanic and sedimentary rocks are most important locally as they are comprised of the thick tholeiitic flood basalts and andesites of the Karmutsen Formation overlain conformably by Quatsino Formation limestone/marble (and Parsons Bay Formation argillite and marl in some areas). These formations were later intruded by the early Jurassic granitic Coast Plutonic Complex followed by extensive erosion and uplift throughout the Jurassic and Cretaceous. These rocks are well represented throughout the property as weakly metamorphosed. The Jurassic Harbeldown Formation calcareous siltstones overlain by island arc volcanic of the Bonanza Formation are also present on the property, however only in small areas.

## ***2.2 Property Geology***

On the Redford property the Quatsino Formation limestone/marble hosts the magnetite skarn mineralization. The Karmutsen, Quatsino and Parsons Bay formations occur as a 1 km wide and 3.5km long roof pendant in granodiorite - diorite Island intrusive rocks (Figure 2.2.1). The Brynnor magnetite skarn deposit is thought to have formed by metasomatic alteration of the carbonate along the metamorphic halos of intrusions. Iron rich metamorphic fluids interacted with the surrounding carbonates to precipitate out iron as magnetite and replace the carbonate. Several Tertiary post skarn andesite dykes exist, identified by their lack of skarn assemblages and cross-cutting relationships.



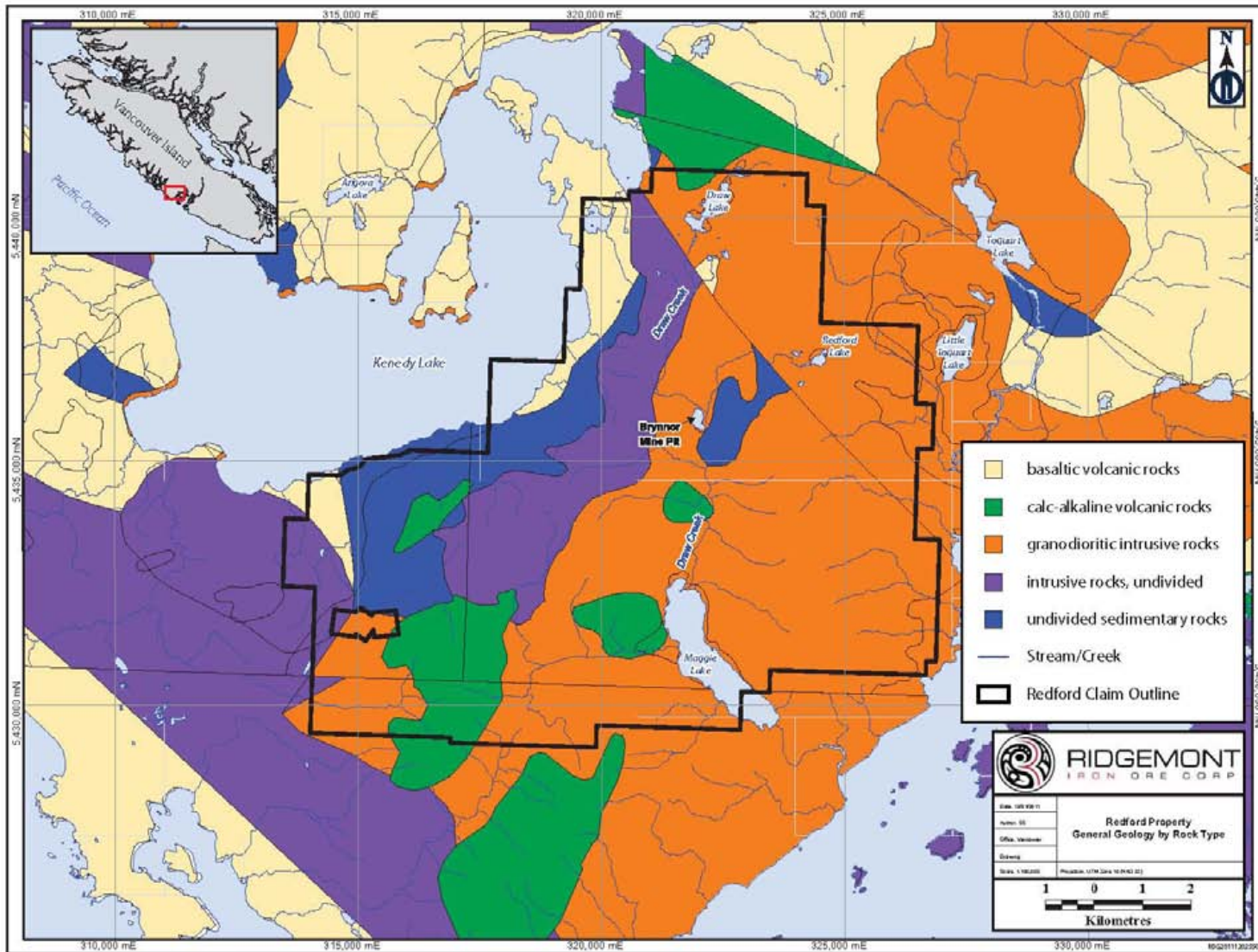


Figure 2.2.1: Property Geology Map

### ***2.3 Deposit Types and Mineralization***

The exploration targets on the Redford claim group are massive magnetite occurrences that are hosted within metasomitized Quatsino Formation limestone/marble, specifically within skarn alteration zones. Iron skarns commonly occur along aureoles where Middle Jurassic granodiorite and diorite intrusions come in contact with limestone. These are common on Vancouver Island. The Brynnor deposit is believed to have formed by metasomatic alteration whereby acidic late stage iron rich solutions (carried as a chloride in solution) react with carbonate rocks to produce a lower pH solution and deposits magnetite. The magnetite essentially replaces the carbonate during the neutralization of the fluids. Similar skarn mineralization can be observed both on Texada Island and near Port McNeil, at Merry Widow Mountain and north of Port Renfrew.

Magnetite mineralization ranges from fine to coarse grained massive lenses and pods to disseminated within skarn or marble with minor to major amounts of silicate minerals such as garnet and diopside and carbonate minerals such as calcite. Lesser amounts of sulphide minerals (pyrite, pyrrhotite, arsenopyrite, chalcopyrite and marcasite) are a common association within or adjacent to the magnetite bodies. In the area of the Brynnor open pit the magnetite body strikes approximately east-southeast and dips to the north at a steep to low angle.

## **3.0 DEPOSIT HISTORY**

The EMPR annual report from 1902 describes a strong magnetic attraction along Magnetic creek, now Draw creek, in close proximity to the Redford property magnetite deposit. In early 1960, a prospector named E. Chase staked several claims between Maggie and Kennedy lakes after relocating the anomaly using a dip needle geophysical survey, essentially a primitive magnetometer (George, 2008). Western Ferric Ores Ltd optioned the claims and drilled 1184 ft (6 holes) where the presence of high-grade, relatively impurity-free magnetite signified potentially economic tonnages. Later that year, Noranda Exploration Company Ltd optioned the property and took over all exploration and development activities. They carried out 20,000 ft (6100 metres) of surface drilling which outlined a near surface

magnetite deposit containing approximately 4,480,940 tonnes of ore with an average grade of 56% iron. In 1961 Noranda signed a contract with a consortium of Japanese Steel companies to produce and supply 700,000 short tons or 635,000 metric tonnes of magnetite concentrate per year for a 7 year term from the Brynnor Deposit. Development of the mining facility began in the spring of 1961 including the construction of an open pit, milling, concentrating and shipping facilities capable of producing 700,000 tonnes of magnetite concentrate per year. The first concentrate shipment was made one year later in May of 1962.

Further drilling throughout 1961-1962 indicated a deeper extension of the ore body to the east of the open pit. In 1964, to access this ore, Noranda built an 856 ft deep, 3 compartment shaft with stations at the 400, 600 and 750 foot levels. Underground drilling defined a further 200 m eastern extension of the ore body. Although some stopes were developed, no mining of underground ore was ever completed. Ore production at the mine ceased after a 7 month strike from July 1966 to March 1967, however mine operations continued to the end of 1968 until the concentrate sales contract expired. Upon completion of concentrator operations on stockpiled ore, Noranda capped the underground shaft and removed the majority of the mining infrastructure.

In the spring of 1995 Logan Resources (then called Consolidated Logan Mines Ltd.) optioned the property from Electrum Resources Corporation and staked new mineral claims. When the option with Electrum ended in 1998, Consolidated Logan kept mineral claims outside the option perimeter agreement area (Bridge, 2004).

In 2003 Logan Resources Ltd began ground acquisition on the property before initiating a copper-gold mineralization exploration program. Subsequent to commissioning an in-house appraisal of the Brynnor deposit, Logan completed airborne and radiometric surveys over the deposit and other portions of the property in early 2008 followed by MMI (mobile metal ion) soil geochemical survey in the spring. These combined with a rowboat waterborne magnetic survey on the flooded open-pit confirmed and outlined the magnetic high over the Brynnor deposit. To further explore the deposit and to intersect the potential down-dip extension, they completed a \$1.3 million definition diamond drilling program resulting in 6,678m of NQ core (21 holes). Attempts to intersect the down dip extension were unsuccessful.

### ***3.1 Geophysical Survey 2011***

In 2010, Ridgemont conducted an airborne magnetic and gravity survey to outline new potential magnetite exploration targets. Based on the results of this survey follow-up surface magnetic surveys were conducted on the entire claim group to investigate the anomalously high airborne survey results in order to verify and delineate any new potential drill targets. The 2011 exploration results yielded little encouragement for additional iron skarn related occurrences, as originally indicated by the airborne magnetometer survey. Because the majority of aerial anomalies coincided with the topographic summit elevations, it is believed that these higher readings resulted from inadequate fly-over drape. Both the subdued ground magnetometer readings and the prevailing intrusive rock type in effect eliminated the entire target anomalies, with the exception of those found contiguous within or adjacent to the known Brynnor deposit.

### ***3.2 Diamond Drilling 2008***

In 2008 Logan Resources drilled 21 diamond drill holes with a primary objective to search for a down-dip extension of the main and remaining Brynnor ore body, as defined by the Noranda work. The first four holes confirmed the main deposit zone followed by 16 drill holes designated to explore the defined magnetite pods at greater depth. These holes show the mineralization follows the limestone/intrusive contact at a steep angle then appear to plunge under the limestone, however, the mineralization rapidly diminishes.

Furthermore, the only available information was based on Noranda's work, which was presented only on hand drawn sections showing the mineralized magnetite intersections. No back-up drill logs or assays were available. So it was necessary to re-drill the occurrence in order to establish grades and to elevate the deposit to a qualified indicated reserve status.



## **4.0 DIAMOND DRILLING**

The 2011 diamond drilling program was designed to delineate the Main Zone, an easterly pit extension, as defined by Noranda's data, which apart from the mineral intersections, as shown on 50 ft. spaced sections, the supporting drill logs and assays were not available. As a measure to verify the older Noranda drilling, 2011 drill hole set-ups were aligned to the original 100 ft. Noranda section grid. Due to geographic constraints 3 to 40 holes were drilled at each drill pad using a 180 degree azimuth and combination of dips, a total of 61 holes totalling 10,234.58 metres were drilled in 2011 (Figure 4.1). A separation not greater than a 30m was maintained to the toe of the hole. All of the drill pads were built within existing older roads utilizing some former drill sites.

### ***4.1 East Zone Drilling***

Follow three magnetometer surveys all clearly indicated a strong and moderate sized anomaly extending east of Draw Creek. No previous drill had been done to investigate this target, which appeared as a further extension of the Brynnor deposit. Based on the geophysical data the easternmost anomaly was comparative to order magnetite pods, but a 200m wide zone between it and the Main Zone appeared weaker. Drill set-ups within this zone were set at 33m spacing, a hole criteria similar to the Main Zone drilling was maintained to provide reliable coverage. In order to access the furthest eastern targets a 500m drill trail was built along with several new drill pads.

### ***4.2 North Zone Drilling***

Approximately 200m to 300m north of the Main and East Zone is an area where several small, isolated, weak magnetometer anomalies were identified. Toward the end of the drilling program, these targets were drilled using a variety of azimuths on a limited number of drill pads all located with previously built older logging roads.



**FIGURE 4.1  
DRILL SITES AND ZONES**

**Figure 4.1 Drill Hole Pad Locations**



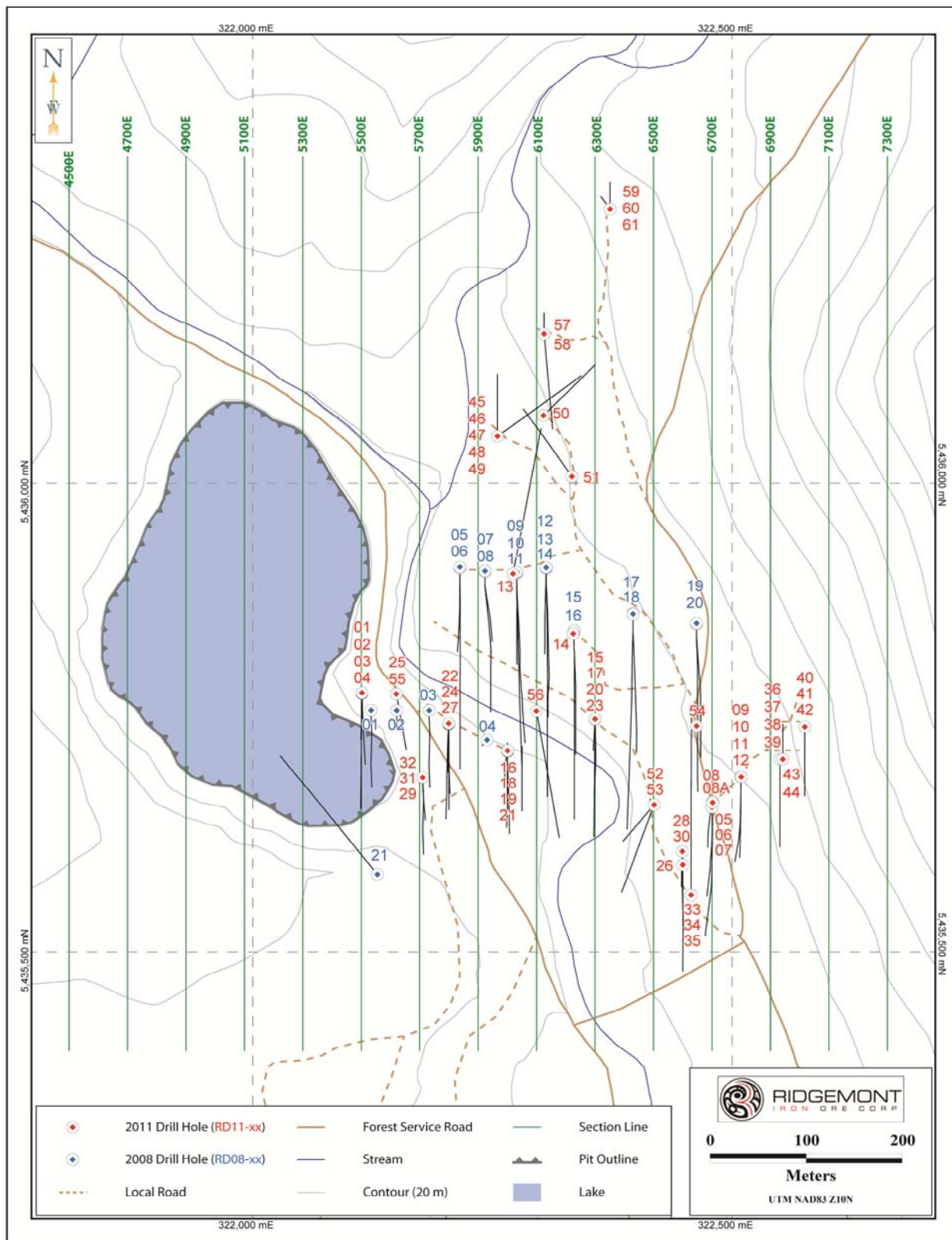


Figure 4.2 Drill Hole Collar Locations

#### ***4.4 Drill Program Specifics***

Ridgemont contracted Cabo Drilling Corp. 19469-92Ave, Surrey, BC, Canada V4N 4G6, the first rig commenced drilling on May 12, 2011. An Atlas Copco CS1000 hydraulic machine was used to drill HQ sized core. A second drill arrived on July 19, 2011 to drill holes and the drill core size was changed to NQ2 for the remainder of the program. On October 3rd 2011 DJ Drilling Ltd (P.O. Box #1090 – 2910 272nd St., Aldergrove, BC, V4W 2V1) assumed drilling operations and completed the remainder of the program, which ended on December 15, 2011.

All core handling and core storage was done at the nearby base camp, located south of the flooded open pit on the former Noranda mine facility. Some of the remnant concrete floors provided a good base for the core storage facility, which was fenced as a security measure. The base camp facility provided two core logging buildings, a core cutting shed, the core storage compound, a heated dry shed, diesel generator, first aid trailer and SeaCan storage structure.

The standard drill pattern maintained was a 160° azimuth with a series of fanned holes ranging from -45°, -60°, -75° and -90° dip. Drill hole dips were occasionally fluctuated as a means to intercept a specific target. Refer to Table 4.1 for a complete list of holes with associated pad numbers, dips, azimuths and other pertinent information.

#### ***4.5 Core Handling, Sampling Protocol***

Core was received twice daily with 3 compartment, 4.0 ft. long wooden core boxes. Drill runs were marked by inserted wooden blocks (chits) set at every 10 foot rod interval. Each chit face was marked denoting the depth in feet and the metric conversion on the opposite side.

A four phase core logging protocol was maintained throughout the program. It began with an initial geo-tech procedure that includes a core inventory scan, calibrating and marking the core into 1 metre intervals. Core recovery determinations were made on each 1 metre interval to estimate the percentage of core loss. Followed by a RQD (rock quality determination) was measured off along each 1 metre interval. Geotechnical information such as core recovery, sampling intervals, RQD, core box numbers and depth intervals were



recorded in the geotechnical access database. Core boxes were tagged using metal plates that described the hole number, box number and the core metre interval enclosed.

Generally, drill core was logged by one or more geologists and on occasion a third geologist would assist. The geologists verified each other's descriptions to ensure interpretative consistency of rock units. Representative lithologic library, depicting the known area rock types and alteration were maintained in the core shed and used for reference. Core logging involved recording lithology, structure and mineralogy, using a visible grading of mineralized zones, and notation of structural features. Following completion of logging mineralized intervals were determined and marked out for sampling. Generally, sample lengths were set at 1 metre intervals and sample tags stapled at the beginning of each interval. The drill core was photographed (three boxes per image), then sent to the core cutting facility or core storage racks. To avoid error the geologist assigned to the drill hole was required to conduct a sample number check prior to the sample bags being sealed. A blank sample, Fe standard or quartered core duplicate were inserted at every 20th sample to maintain a lab assay checks.

Core cutting was done using an electrical 14" diamond saw. Core cutters were instructed to align the core place 1/2 into a tagged sample bag and the other half back into the core box. At the end of each shift, cut samples were checked and bagged into sealed rice bags. The completed samples were placed onto a pallet and placed within a fenced compound until a shipment was arranged. The samples were transported by Freightways Trucking, a bonded courier and delivered to Acme Labs in Vancouver.

#### ***4.6 Drill Hole Surveys***

Drill collar locations were surveyed by a licensed survey technician and initial layouts were frequently done using a Garmin GPS. Drill collar locations were aligned with north-south Noranda section lines as close as possible. Compasses calibrated to reflect the local deviations and magnetic declination (19°) were used for directional control of the drill alignment. Upon completion of each drill hole, the collars were surveyed. Drill collar coordinates are listed in Table 4.1.

Prior to the final removal of the drill rods, holes (excluding -90° holes) were surveyed using a Reflex EZ Trac survey tool, set in multishot mode with readings taken at every 10 foot rod

extraction. Dip measurements were collected by the Reflex instruments triaxial accelerometers.

#### **4.7 Core Lithologies**

Lithologic units were determined partially based on the Logan 2008 core logging data as well as observations during the 2011 program. Logan interpretations were simplified to narrow the number of lithologic units. Only lithologic units longer than 1 meter in length were described separately. Smaller lithologic units were included in the unit's description column. Skarn and magnetite lithologies were named according to their mineral abundance set at 50% or greater. Rock types included; andesite, basalt, diorite, marble, magnetite, overburden, skarn and tonalite. The most significant skarn mineralogies consisted of; diopside, garnet, epidote, fluorite, magnetite, pyroxene (hedenbergite?), and rhodochrosite. Details about the rock type, skarn mineralogy and percentages, HCl reaction, rock textures, mineralization, structure and from-to depths were all recorded in the geology access template

Four distinct types of igneous dykes or intrusions were observed and described. Andesite dykes were grey, tan or green with porphyritic textures including plagioclase, hornblende and calcite phenocrysts and occasional desiccated plagioclase-hornblende clusters from alteration. The groundmass was sometimes composed of diopside or hedenbergite. Aphanitic basalt was dark grey to black or brown form of biotite alteration. Diorite dykes had the typical salt and pepper appearance with varying percentages of mainly quartz, hornblende and plagioclase, rare replacement of crystals by epidote and diopside were also observed. The footwall areas tended to be dominated by diorite. Rare tonalite dykes were very distinct by their white silicious colouring and low percentage of mafics. The intrusive dykes of andesite, basalt, diorite and tonalite were distinguished by sharp contacts and occasional chilled margins.

Limestone/marble of the Quatsino Formation was observed as light to dark grey massive fine to coarse crystalline, often coarsening down hole. It is common in the upper sections of drill holes capping the magnetite ore zone. Mottling with skarn and disseminated magnetite was rare. Magnetite was described as either massive or impure (> 50% magnetite). Disseminated magnetite was often mottled with skarn assemblages, mainly

diopside and epidote. Common accessory minerals included pyrite, pyrrhotite, chalcopyrite, arsenopyrite, graphite, chlorite and serpentine. Magnetite intervals capped with marble tended to be massive and more pure than those capped by skarn. Low pressure high temperature skarn yields very complex and often predictable mineral assemblages. Three main subtypes were described here based on dominant mineralogy, these include; garnet, diopside and pyroxene (hedenbergite?). Accessory minerals commonly encountered in both the groundmass and along fractures were epidote, rhodochrosite, fluorite, magnetite, quartz, chlorite and serpentine. Intervals were occasionally bleached from infiltration of vein-related siliceous fluids. Textures varied from mottled to flow banded. Relict porphyritic andesite textures were rarely encountered.

Calcite veinlets were occasionally found throughout all of the lithology types. The most prevalent type of contact was sharp between most lithologic units. Faulted contacts were occasionally observed. Graduated contacts were more common between skarn and andesite or basalt lithologies due to metamorphic temperature gradients.

East zone lithologies were somewhat different than those observed with the Main Zone. The diorite footwall was much higher likely due to the higher topographic elevation in this area. Pads 15, 20 and 21 were located at base of a steep slope along which diorite outcrops were observed.

<b>Abbreviation</b>	<b>Description</b>
And	Porphyritic andesite, occasionally altered
Bs	Aphanitic basalt, occasionally altered
Dt	Coarse crystalline diorite dyke
Mb	Re-crystallized limestone/fine-coarse crystalline marble
Mt	Disseminated - massive magnetite (>50% mt)
OB	Unconsolidated overburden material
Sk	Variety of skarn alteration assemblages mainly, garnet, diopside and pyroxene (described in detail below)
Tn	Tonalite dyke

## **4.8 Iron Analysis**

Acme Lab Satmagan Procedure and Quality Control described in Appendix B.

## **5.0 DISCUSSION AND CONCLUSIONS**

The 2011 Ridgemont diamond drill program consisted of 61 holes totalling 10,234.58 metres utilizing 29 drill pads. The program coverage was categorized into three zones as follows:

### **Main Zone**

The program objective was to re-drill the old 100 foot spaced sections created by Noranda during 1965-1967, to confirm the inferred reserve configuration, determine its grade and to take this deposit to an indicated reserve status compliant with a NR 43-101 standard. Due to the erratic nature of skarn-hosted deposits this required a high density drill hole pattern, which was maintained and all mineralized intervals were sampled. The new drilling closely matched the ore sections completed by Noranda and slightly increased the reserve model size.

### **East Zone**

The East Zone is located east of Draw Creek and aligned down strike with the Main Brynnor Zone. Though this area had never been drilled, a high ground magnetometer anomaly clearly indicated that the mineralization continues in a southeast direction for approximately 200 metres. In order to maintain continuity with the Main Zone, drill hole collars were centred on the same 33 metre spaced section grid. The drill results confirmed that magnetite mineralization was similar in strike and dip to that found in the Main Zone. Drill hole densities were sufficient to clearly outline the mineralized pods and thus add to the mineral inventory as indicated reserves.

### **North Zone**

Several small and weak surface magnetometer anomalies located approximately 250 metres north of the main mineralized trend were drilled. Drill results confirmed this area had several, small and isolated pods or lenses of magnetite that lacked sufficient size. These random

magnetite pods had similar geologic characteristics to the main ore body, but failed to have any continuity and therefore were not large enough to be considered economic.

## **6.0 RECOMMENDATIONS**

The 2011 geological mapping, geophysics and drilling data suggests that the Redford property warrants no further work.

## **7.0 REFERENCES**

Bridge, D. J., 2004, Report on the rock sampling and diamond drilling on the Redford property, Draw 7-9, Easter 1-20, Gege and Jaya mineral claims, Alberni mining division, Vancouver island, British Columbia.

Chatwin Engineering Ltd., 2009, Toquart Bay Water Quality Study, Redford Mining Property - Environmental Assessment Report, for Logan Resources Ltd.

George, P. T., 2008, Technical Report Mineral Resource and Preliminary Economic Assessment Brynnor Iron Deposit Redford Property Vancouver Island, British Columbia, for Logan Resources Ltd.

LeBel, J.L., 2010, Report on the Redford Property (Brynnor Deposit), for Ridgemont Iron Ore Corp.

Wastenays, H, 2010, Technical Report on the Diamond Drilling at the Brynnor Magnetite Deposit Redford Property, for Logan Resources Ltd.

Yorath, C. J., 2005, Geology of Southern Vancouver Island, Revised Edition, 205p.

[http://www.gemsys.ca/prod\\_overhauser.htm](http://www.gemsys.ca/prod_overhauser.htm); follow link: Technical Details – Complete Overhauser Product Information PDF.



**Appendix A**  
**Cost Statement**

Exploration Work type	Comment	Days		
<b>Personnel (Name)* / Position</b>	<b>Field Days (list actual days)</b>	<b>Days</b>	<b>Rate</b>	<b>Subtotal*</b>
Arnie Pollmer (Supervising Geologist)		200	\$450.00	\$90,000.00
Amy Nelson (Geologist)		182	\$325.00	\$59,150.00
Jillian Griffiths (Geologist)		182	\$325.00	\$59,150.00
Gillian Helpard (Assistant)		182	\$200.00	\$36,400.00
			\$0.00	\$0.00
			\$0.00	\$0.00
				\$244,700.00
<b>Office Studies</b>	<b>List Personnel (note - Office only, do not include field days)</b>			
Literature search			\$0.00	\$0.00
Database compilation	Larry Poznikoff	14.0	\$450.00	\$6,300.00
Computer modelling	Larry Poznikoff	7.0	\$450.00	\$3,150.00
Reprocessing of data			\$0.00	\$0.00
General research			\$0.00	\$0.00
Report preparation	Lindsay Steele	7.0	\$450.00	\$3,150.00
Report preparation	Arnie Pollmer	4.0	\$450.00	\$1,800.00
Other (specify)	Map Making	3.0	\$450.00	\$1,350.00
				\$15,750.00
<b>Airborne Exploration Surveys</b>	<b>Line Kilometres / Enter total invoiced amount</b>			
Aeromagnetics			\$0.00	\$0.00
Radiometrics			\$0.00	\$0.00
Electromagnetics			\$0.00	\$0.00
Gravity			\$0.00	\$0.00
Digital terrain modelling			\$0.00	\$0.00
Other (specify)			\$0.00	\$0.00
				\$0.00
<b>Remote Sensing</b>	<b>Area in Hectares / Enter total invoiced amount or list personnel</b>			
Aerial photography			\$0.00	\$0.00
LANDSAT			\$0.00	\$0.00
Other (specify)			\$0.00	\$0.00
				\$0.00
<b>Ground Exploration Surveys</b>	<b>Area in Hectares/List Personnel</b>			
Geological mapping				
Regional				
Reconnaissance				
Prospect				
Underground	Define by length and width			
Trenches	Define by length and width			\$0.00
<b>Ground geophysics</b>	<b>Line Kilometres / Enter total amount invoiced list personnel</b>			
Radiometrics				
Magnetics				
Gravity				
Digital terrain modelling				
Electromagnetics	<i>note: expenditures for your crew in the field</i>			
SP/AP/EP	<i>should be captured above in Personnel</i>			
IP	<i>field expenditures above</i>			
AMT/CSAMT				
Resistivity				

Complex resistivity				
Seismic reflection				
Seismic refraction				
Well logging	Define by total length			
Geophysical interpretation				
Petrophysics				
Other (specify)				
				\$0.00
<b>Geochemical Surveying</b>	<b>Number of Samples</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
Drill (cuttings, core, etc.)		1.0	\$51,631.79	\$51,631.79
Stream sediment			\$0.00	\$0.00
Soil	<i>note: This is for assays or</i>		\$0.00	\$0.00
Rock	<i>laboratory costs</i>		\$0.00	\$0.00
Water			\$0.00	\$0.00
Biogeochemistry			\$0.00	\$0.00
Whole rock			\$0.00	\$0.00
Petrology			\$0.00	\$0.00
Other (specify)			\$0.00	\$0.00
				\$51,631.79
<b>Drilling</b>	<b>No. of Holes, Size of Core and Metres</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
Diamond	62 holes (10,282m) HQ and NQ2	1.0	\$1,503,104.10	\$1,503,104.10
Reverse circulation (RC)			\$0.00	\$0.00
Rotary air blast (RAB)			\$0.00	\$0.00
Other (specify)	Collar survey, drill pad construction	1.0	\$80,435.26	\$80,435.26
				\$1,583,539.36
<b>Other Operations</b>	<b>Clarify</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
Trenching			\$0.00	\$0.00
Bulk sampling			\$0.00	\$0.00
Underground development			\$0.00	\$0.00
Other (specify)			\$0.00	\$0.00
				\$0.00
<b>Reclamation</b>	<b>Clarify</b>	<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
After drilling			\$0.00	\$0.00
Monitoring			\$0.00	\$0.00
Other (specify)			\$0.00	\$0.00
				\$0.00
<b>Transportation</b>		<b>No.</b>	<b>Rate</b>	<b>Subtotal</b>
Airfare			\$0.00	\$0.00
Taxi			\$0.00	\$0.00
truck rental		1.00	\$921.56	\$921.56
kilometers			\$0.00	\$0.00
ATV			\$0.00	\$0.00
fuel		1.00	\$26,774.50	\$26,774.50
Helicopter (hours)			\$0.00	\$0.00
Fuel (litres/hour)			\$0.00	\$0.00
Other	(Airfare, rentals and gas)	1.00	\$33,272.81	\$33,272.81
				\$60,968.87
<b>Accommodation &amp; Food</b>	<b>Rates per day</b>			
Hotel	House Rental	1.00	\$19,365.91	\$19,365.91

Camp			\$0.00	\$0.00
Meals	actual costs	1.00	\$46,136.32	\$46,136.32
				\$65,502.23
<b>Miscellaneous</b>				
Telephone		1.00	\$30.34	\$30.34
Other (Specify)	Field office, first aid, field supplies	1.00	\$11,323.13	\$11,323.13
				\$11,353.47
<b>Equipment Rentals</b>				
Field Gear (Specify)		1.00	\$7,251.76	\$7,251.76
Other (Specify)	Equipment Repair	1.00	\$9,441.72	\$9,441.72
				\$16,693.48
<b>Freight, rock samples</b>				
		1.0	\$4,079.76	\$4,079.76
			\$0.00	\$0.00
				\$4,079.76
<b><i>TOTAL Expenditures</i></b>				<b>\$2,054,218.96</b>

**Appendix B**  
**List of Software**



**List of Software Programs:**

MapInfo Professional 9.5

MapInfo – Discover 10.0

GEMLink 5.0

QCTool

UEStudio

Microsoft Office Excel 2007

Microsoft Office Word 2007

Adobe Reader 9

Paint

MapSource

**Appendix C**  
**Drilling Results**

**Redford 2011 Drill Results:**

Hole #	From (m)	To (m)	Length (m)	Iron (Fe) %
RD11-01	74.0	85.0	11.0	47.2
<i>and</i>	103.0	133.0	30.0	49.6
<i>and</i>	155.0	168.0	13.0	41.2
RD11-02	75.3	112.0	36.7	57.1
<i>and</i>	134.9	141.0	6.1	47.5
RD11-03	99.0	106.2	7.2	41.5
<i>and</i>	113.9	125.3	11.4	54.0
<i>and</i>	154.0	171.0	17.0	55.7
RD11-04	144.0	156.0	17.0	51.6
RD11-05	58.0	73.0	15.0	44.8
RD11-06	62.0	111.0	49.0	43.9
<i>and</i>	122.0	131.0	9.0	47.5
RD11-07	116.0	129.0	13.0	49.3
RD11-08	74.0	78.0	4.0	43.7
RD11-09	90.0	99.0	9.0	48.8
RD11-10	94.0	122.0	28.0	44.3
<i>including</i>	107.0	122.0	15.0	56.2
RD11-11	91.0	95.0	4.0	43.4
RD11-12	123.0	142.0	19.0	54.3
<i>including</i>	131.0	141.0	10.0	60.8
RD11-13	no significant values			
RD11-14	no significant values			
RD11-15	142.0	145.0	3.0	45.3
RD11-16	no significant values			
RD11-17	202.0	206.0	4.0	40.5
RD11-18	106.0	114.0	8.0	41.8

RD11-19	105.0	109.0	4.0	58.0
<i>and</i>	115.0	124.0	9.0	47.9
<i>and</i>	129.0	135.0	6.0	41.4

RD11-20	174.0	228.0	54.0	54.0
<i>including</i>	181.0	214.0	33.0	59.1

RD11-21	141.0	196.0	55.0	46.5
<i>including</i>	144.0	154.0	10.0	56.6
<i>including</i>	167.0	175.0	8.0	59.2

RD11-22	106.0	119.0	13.0	51.7
---------	-------	-------	------	------

RD11-25	125.0	156.0	31.0	52.3
<i>and</i>	164.0	176.0	12.0	44.3

RD11-27	173.0	199.0	26.0	51.5
<i>including</i>	186.0	199.0	13.0	60.2

RD11-29	79.0	100.0	21.0	56.6
---------	------	-------	------	------

RD11-34	63.0	112.0	49.0	43.4
<i>including</i>	72.0	92.0	20.0	55.5
<i>and</i>	237.0	249.0	12.0	49.2

RD11-39	105.0	128.0	23.0	50.8
<i>including</i>	105.0	116.0	11.0	54.1

RD11-40*	114	118	4	43.6
----------	-----	-----	---	------

RD11-41	no significant values			
---------	-----------------------	--	--	--

RD11-42*	no significant values			
----------	-----------------------	--	--	--

RD11-43*	no significant values			
----------	-----------------------	--	--	--

RD11-44*	no significant values			
----------	-----------------------	--	--	--

RD11-45*	37	41	4	43.8
----------	----	----	---	------

RD11-46*	51	55	4	43.5
<i>and</i>	65	70	5	50.1
<i>and</i>	129	138	9	40.4
<i>including</i>	129	132	3	50.1
<i>and</i>	145	155	10	45.7

<i>including</i>	151	155	4	51.9
RD11-47*	77	88	11	58.5
RD11-48*	no significant values			
RD11-49*	28	32	4	46.4
RD11-50*	24.39	34	9.61	47.7
<i>and</i>	74	82	8	59.0
RD11-51*	115	117	2	50.3
RD11-52*	177	179	2	40.4
RD11-53*	161	162	1	44.6
RD11-54*	no significant values			
RD11-55*	no significant values			
RD11-56*	154	157	3	47.6
<i>and</i>	169	174	5	48.7
RD11-57*	no significant values			
RD11-58*	46	65	19	51.0
<i>including</i>	46	58	12	54.9
RD11-59*	57	65	8	50.1
<i>including</i>	58	62	4	56.2
RD11-61*	49	56	7	51.1
<i>including</i>	49	53	4	54.9



Acme Metallurgical Limited  
1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

### JOB INFORMATION, AML11006S10

---

---

**Client:** Edward Lyons  
Ridgemont Iron Ore Corp.  
1240 - 1140 W. Pender St.  
Vancouver, BC V6E 4G1  
Canada

**Project Name:** Redford Iron  
**Project Number:** 11006  
**Operator:** Sarah Saw  
**Date Completed:** 16-Jan-12

**Results To:** Edward Lyons  
Larry Poznikoff  
Greg Butt  
Arnie Pollmer  
Ali Broujerdi

[elyons@explorationgroup.com](mailto:elyons@explorationgroup.com)  
[lpoznikoff@explorationgroup.com](mailto:lpoznikoff@explorationgroup.com)  
[gbutt@explorationgroup.com](mailto:gbutt@explorationgroup.com)  
[apollmer@explorationgroup.com](mailto:apollmer@explorationgroup.com)  
[abroujerdi@explorationgroup.com](mailto:abroujerdi@explorationgroup.com)

**QC/QA:** STD -1, Satmagan reading 12.1%  
STD -2, Satmagan reading 46.8%  
STD -3, Satmagan reading 79.8%

*Danny Kwok*

---

**Authorized By**

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client.



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgmont Iron Ore Corp.

Sample ID	%Magnetite		Cal. Curve
	Satmagan	Sat. Duplicate	
14051	27.9		29.9
14052	86.8		93.1
14053	92.8		99.5
14054	91.6		98.3
14055	40.7		43.7
14056	95.6		102.5
14057	84.6		90.7
14058	91.6	91.8	98.3
14059	90.0		96.5
14060	93.6		100.4
14061	85.2		91.4
14062	49.2		52.8
14063	12.0		12.9
14064	9.3		10.0
14065	6.3		6.8
14066	2.3		2.5
14067	30.4		32.6
14068	29.0	29.0	31.1
STD 1	12.0		12.9
14069	20.9		22.4
14070	56.8		60.9
14071	45.4		48.7
14072	78.6		84.3
14073	75.6		81.1
14074	3.6		3.9
14075	0.5		0.5
14076	0.2	0.3	0.2
14077	6.8	6.7	7.3
14078	0.5		0.5
14079	1.9		2.0
14080	39.3		42.2
14081	0.4		0.4
14082	0.2		0.2
14083	5.5		5.9
14084	13.2		14.2
14085	33.0		35.4
14086	48.8		52.3
14087	24.3		26.1
15351	66.6		71.4
15352	84.0		90.1

Sample ID	%Magnetite		Cal. Curve
	Satmagan	Sat. Duplicate	
15353	37.4		40.1
15354	30.0		32.2
15355	88.8		95.2
15356	84.0	83.8	90.1
15357	77.0		82.6
15358	66.6		71.4
15359	82.0		88.0
15360	60.0		64.4
15361	13.1		14.1
15362	80.8		86.7
15363	59.8		64.1
15364	85.2		91.4
15365	95.2		102.1
15366	87.0	87.0	93.3
STD 2	46.8		50.2
15367	85.4		91.6
15368	90.0		96.5
15369	68.4		73.4
15370	34.2		36.7
15371	5.9		6.3
15372	38.2		41.0
15373	9.8		10.5
15374	35.4	35.2	38.0
15375	0.9	0.9	1.0
15376	40.8		43.8
15377	26.9		28.9
15378	48.7		52.2
15379	15.1		16.2
15380	21.2		22.7
15381	63.0		67.6
15382	76.0		81.5
14121	6.7		7.2





Acme Metallurgical Limited  
1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

### JOB INFORMATION, AML11006S9

---

---

**Client:** Edward Lyons  
Ridgemont Iron Ore Corp.  
1240 - 1140 W. Pender St.  
Vancouver, BC V6E 4G1  
Canada

**Project Name:** Redford Iron  
**Project Number:** 11006  
**Operator:** Sarah Saw  
**Date Completed:** 05-Jan-12

**Results To:** Edward Lyons  
Larry Poznikoff  
Greg Butt  
Arnie Pollmer  
Ali Broujerdi

[elyons@explorationgroup.com](mailto:elyons@explorationgroup.com)  
[lpoznikoff@explorationgroup.com](mailto:lpoznikoff@explorationgroup.com)  
[gbutt@explorationgroup.com](mailto:gbutt@explorationgroup.com)  
[apollmer@explorationgroup.com](mailto:apollmer@explorationgroup.com)  
[abroujerdi@explorationgroup.com](mailto:abroujerdi@explorationgroup.com)

**QC/QA:** STD -1, Satmagan reading 12.1%  
STD -2, Satmagan reading 46.8%  
STD -3, Satmagan reading 79.8%

*Danny Kwok*

---

**Authorized By**

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client.



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgmont Iron Ore Corp.

Sample ID	%Magnetite		Cal. Curve
	Satmagan	Sat. Duplicate	
15401	35.4		38.0
15402	48.3		51.8
15403	63.4		68.0
15404	21.9		23.5
15405	16.5		17.7
15406	0.6		0.6
15407	14.0		15.0
15408	12.1	12.1	13.0
15409	2.7		2.9
15410	4.6		4.9
15411	3.8		4.1
15412	0.4		0.4
15413	1.3		1.4
15414	2.0		2.1
15415	6.9		7.4
15416	37.9		40.7
15417	61.6	60.0	66.1
STD 1	12.0		12.9
15418	1.5		1.6
15419	33.1		35.5
15420	42.6		45.7
15421	47.8		51.3
15422	13.5		14.5
15423	17.9		19.2
15424	53.4		57.3
15425	5.9		6.3
15426	9.5		10.2
15427	1.6	1.6	1.7
15428	4.1		4.4
15429	3.0		3.2
15430	15.0		16.1
15431	27.3		29.3
15432	18.7		20.1
15433	3.7		4.0
15434	4.0		4.3
15451	18.6		20.0
15452	76.2		81.7
15453	81.0	81.4	86.9
STD 2	46.5		49.9
15454	40.2		43.1

Sample ID	%Magnetite		Cal. Curve
	Satmagan	Sat. Duplicate	
15455	40.7		43.7
15456	51.2		54.9
15457	41.6		44.6
15458	0.9		1.0
15459	61.0		65.4
15460	54.0		57.9
15461	63.4		68.0
15462	79.0		84.7
15463	78.8	78.6	84.5
15464	1.7		1.8
15465	7.5		8.0
15466	16.9		18.1
15467	0.7		0.8
15468	0.9	0.8	1.0
15469	0.7		0.8
15470	0.5		0.5
15471	3.7		4.0
15472	31.8	31.8	34.1
STD 3	80.2		86.0
15473	29.7		31.9
15474	0.5		0.5
15475	41.0		44.0
15476	14.7		15.8
15477	26.7		28.6
15478	52.6		56.4
15479	29.5		31.6
15480	25.4		27.2
15481	3.5		3.8
15482	10.1	10.1	10.8
15483	28.2		30.2
15484	22.1		23.7
15485	1.0		1.1
15486	9.5		10.2
15487	8.9		9.5
15488	22.1		23.7
15489	13.7		14.7
15490	3.2		3.4
15501	0.2		0.2
15502	1.5		1.6
15503	14.4		15.4





Acme Metallurgical Limited  
1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

### JOB INFORMATION, AML11006S8

---

**Client:** Edward Lyons  
Ridgemont Iron Ore Corp.  
1240 - 1140 W. Pender St.  
Vancouver, BC V6E 4G1  
Canada

**Project Name:** Redford Iron  
**Project Number:** 11006  
**Operator:** Sarah Saw  
**Date Completed:** 07-Nov-11

**Results To:** Edward Lyons [elyons@explorationgroup.com](mailto:elyons@explorationgroup.com)  
Larry Poznikoff [lpoznikoff@explorationgroup.com](mailto:lpoznikoff@explorationgroup.com)  
Greg Butt [gbutt@explorationgroup.com](mailto:gbutt@explorationgroup.com)  
Arnie Pollmer [apollmer@explorationgroup.com](mailto:apollmer@explorationgroup.com)  
Ali Broujerdi [abroujerdi@explorationgroup.com](mailto:abroujerdi@explorationgroup.com)

**QC/QA:** STD -1, Satmagan reading 12.1%  
STD -2, Satmagan reading 46.8%  
STD -3, Satmagan reading 79.8%

*Danny Kwok*

---

**Authorized By**

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
13760	0.2		0.2
13761	63.4		68.0
13762	69.4		74.4
13763	55.0		59.0
13764	54.4		58.4
13765	19.8		21.2
13766	34.2		36.7
13767	9.1	9.1	9.8
13768	13.8		14.8
13769	41.8		44.8
13770	34.6		37.1
13771	13.1		14.1
13772	15.2		16.3
13773	40.4		43.3
13774	38.6		41.4
13775	15.3		16.4
13776	47.1		50.5
13777	39.4	39.4	42.3
STD 1	12.0		12.9
13778	10.5		11.3
13779	63.8		68.4
13780	24.9		26.7
13781	39.7		42.6
13782	53.6		57.5
13783	30.9		33.1
13784	5.3		5.7
13785	16.4		17.6
13786	40.5		43.4
13787	41.2	41.2	44.2
13788	48.7		52.2
13789	41.6		44.6
13790	49.4		53.0
13791	37.3		40.0
13792	17.5		18.8
13793	1.2	0.4	1.3
13794	20.9		22.4
13801	57.0		61.1
13802	89.0	89.0	95.5
STD 2	46.8		50.2
13803	54.8		58.8

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
13804	39.7		42.6
13805	26.2		28.1
13806	27.3		29.3
13807	54.4		58.4
13808	88.0		94.4
13809	90.6		97.2
13810	87.0		93.3
13811	26.3		28.2
13812	7.0	7.0	7.5
13813	3.0		3.2
13814	35.0		37.5
13815	37.4		40.1
13816	25.4		27.2
13817	27.3		29.3
13818	34.1		36.6
13819	25.6		27.5
13820	27.9		29.9
13821	28.5		30.6
13822	25.0	25.0	26.8
STD 3	80.2		86.0
13823	13.9		14.9
13824	20.8		22.3
13825	19.1		20.5
13826	40.8		43.8
13827	18.7		20.1
13828	15.7		16.8
13829	19.0		20.4
13830	23.8		25.5
13831	12.1		13.0
13832	36.3	36.3	38.9
13833	56.8		60.9
13834	57.0	58.0	61.1
13835	48.9		52.5
13836	19.5		20.9
13837	20.8		22.3
13838	70.2		75.3
13839	62.4		66.9
13840	75.0		80.4
13841	64.6		69.3
13842	48.0		51.5





Acme Metallurgical Limited  
1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

### JOB INFORMATION, AML11006S7

---

**Client:** Edward Lyons  
Ridgemont Iron Ore Corp.  
1240 - 1140 W. Pender St.  
Vancouver, BC V6E 4G1  
Canada

**Project Name:** Redford Iron  
**Project Number:** 11006  
**Operator:** Sarah Saw  
**Date Completed:** 31-Oct-11

**Results To:** Edward Lyons [elyons@explorationgroup.com](mailto:elyons@explorationgroup.com)  
Larry Poznikoff [lpoznikoff@explorationgroup.com](mailto:lpoznikoff@explorationgroup.com)  
Greg Butt [gbutt@explorationgroup.com](mailto:gbutt@explorationgroup.com)  
Arnie Pollmer [apollmer@explorationgroup.com](mailto:apollmer@explorationgroup.com)  
Ali Broujerdi [abroujerdi@explorationgroup.com](mailto:abroujerdi@explorationgroup.com)

**QC/QA:** STD -1, Satmagan reading 12.1%  
STD -2, Satmagan reading 46.8%  
STD -3, Satmagan reading 79.8%

*Danny Kwok*

---

**Authorized By**

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client





Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
15161	8.6		9.2
15162	24.1		25.9
15163	0.7		0.8
15164	1.3		1.4
15165	40.6		43.5
15166	0.6		0.6
15167	39.6		42.5
15168	13.3	13.3	14.3
15169	21.6		23.2
15170	36.3		38.9
15171	5.4		5.8
15172	8.3		8.9
15173	58.2		62.4
15174	66.8		71.7
15175	77.4		83.0
15176	34.2		36.7
13651	0.4		0.4
13652	47.9	47.9	51.4
STD 1	12.1		13.0
13653	66.6		71.4
13654	39.1		41.9
13655	57.0		61.1
13656	62.4		66.9
13657	65.6		70.4
13658	36.2		38.8
13659	25.6		27.5
13660	71.6		76.8
13661	50.8		54.5
13662	8.3	8.3	8.9
13663	14.1	13.9	15.1
13664	46.9		50.3
13665	46.9		50.3
13666	61.6		66.1
13667	62.0		66.5
13668	90.8		97.4
13669	0.7		0.8
13670	71.8		77.0
13671	70.6		75.7
13672	77.0		82.6
13673	76.2		81.7

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
13674	75.2		80.7
13675	76.6		82.2
13676	58.4		62.6
13677	48.7	48.8	52.2
13678	2.6		2.8
13679	11.0		11.8
13680	73.6		78.9
13681	63.6		68.2
13682	84.8		91.0
13683	68.0		72.9
13684	81.4		87.3
13685	66.6		71.4
13686	86.0		92.2
13687	82.0	82.0	88.0
STD 2	46.2		49.6
13688	66.4		71.2
13689	83.2		89.2
13690	66.6		71.4
13691	27.3		29.3
13692	31.9		34.2
13693	78.2		83.9
13694	77.2		82.8
13695	73.0		78.3
13696	77.4		83.0
13697	4.0	4.0	4.3
13698	82.2	81.4	88.2
13699	87.8		94.2
13700	88.8		95.2
13701	83.6		89.7
13702	86.2		92.5
13703	66.8		71.7
13704	0.8		0.9
13705	11.6		12.4
13706	3.2		3.4
13707	20.3	20.3	21.8
STD 3	80.2		86.0
13708	81.2		87.1
13709	59.4		63.7
13710	51.0		54.7
13711	49.5		53.1



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

### CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
13712	12.8		13.7
13713	22.7		24.3
13714	10.9		11.7
13751	20.1		21.6
13752	40.3		43.2
13753	38.9	38.9	41.7
13754	7.3		7.8
13755	11.5		12.3
13756	30.7		32.9
13757	24.8		26.6
13758	0.3		0.3
13759	0.5		0.5

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve



Acme Metallurgical Limited  
1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

### JOB INFORMATION, AML11006S6

---

**Client:** Edward Lyons  
Ridgemont Iron Ore Corp.  
1240 - 1140 W. Pender St.  
Vancouver, BC V6E 4G1  
Canada

**Project Name:** Redford Iron  
**Project Number:** 11006  
**Operator:** Sarah Saw  
**Date Completed:** 05-Oct-11

**Results To:** Edward Lyons  
Larry Poznikoff  
Greg Butt  
Arnie Pollmer

[elyons@explorationgroup.com](mailto:elyons@explorationgroup.com)  
[lpoznikoff@explorationgroup.com](mailto:lpoznikoff@explorationgroup.com)  
[gbutt@explorationgroup.com](mailto:gbutt@explorationgroup.com)  
[apollmer@explorationgroup.com](mailto:apollmer@explorationgroup.com)

**QC/QA:** STD -1, Satmagan reading 12.1%  
STD -2, Satmagan reading 46.8%  
STD -3, Satmagan reading 79.8%

*Danny Kwok*

---

Authorized By

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
13601	43.9		47.1
13602	62.6		67.1
13603	66.8		71.7
13604	61.8		66.3
13605	70.2		75.3
13606	33.1		35.5
13607	40.9		43.9
13608	19.0	19.1	20.4
13609	5.0		5.4
13610	22.3		23.9
13611	70.8		75.9
13612	45.7		49.0
13613	79.8		85.6
13614	90.2		96.7
13615	87.6		94.0
13616	90.0		96.5
13617	77.8	77.8	83.4
STD 1	12.1		13.0
13618	62.8		67.4
13619	41.0		44.0
13620	54.4		58.4
13621	42.2		45.3
13622	74.2		79.6
13623	19.7		21.1
13624	14.7		15.8
13625	0.5		0.5
13626	39.5		42.4
13627	14.4	14.5	15.4
13628	3.1		3.3
13629	0.5		0.5
13630	3.7		4.0
13631	1.0		1.1
15101	12.3		13.2
15102	86.6		92.9
15103	35.9		38.5
15104	13.8		14.8
15105	0.7		0.8
15106	1.2		1.3
15107	1.0		1.1
15108	18.3		19.6

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
15109	68.0		72.9
15110	67.4	67.6	72.3
15111	54.4		58.4
15112	31.8		34.1
15113	78.2		83.9
15114	80.6		86.5
15115	58.6		62.9
15116	86.0		92.2
15117	85.2		91.4
15118	78.8	79.2	84.5
STD 2	46.5		49.9
15119	73.6	73.8	78.9
15120	60.6		65.0
15121	0.3		0.3
15122	83.4		89.5
15123	78.0		83.7
15124	65.2		69.9
15125	62.4		66.9
15126	79.8		85.6
15127	75.4		80.9
15128	86.6		92.9
15129	66.2	66.0	71.0
15130	76.0		81.5
15131	81.2		87.1
15132	82.4		88.4
15133	82.6		88.6
15134	73.4		78.7
15135	78.6		84.3
15136	79.8		85.6
15137	65.4		70.1
15138	48.1		51.6
15139	60.2		64.6
15140	63.8		68.4
15141	84.4		90.5
15142	73.0		78.3
15143	69.6		74.7
15144	56.2	56.0	60.3
15145	27.8		29.8
15146	5.2		5.6
15147	55.0		59.0



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

**CERTIFICATE OF SATMAGAN ANALYSIS**  
 Ridgemont Iron Ore Corp.

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
15148	44.6		47.8
15149	39.5		42.4
15150	27.9		29.9
15151	14.3		15.3
15152	16.6		17.8
15153	32.2	33.1	34.5
STD 3	80.2		86.0
15154	22.5		24.1
15155	17.2		18.4
15156	22.9		24.6
15157	31.1		33.4
15158	30.8		33.0
15159	12.5		13.4
15160	2.5		2.7
16551	72.2		77.4
16552	84.2		90.3
16553	84.8	84.8	91.0
16554	75.6		81.1
16555	40.8		43.8
16556	35.3		37.9
16557	29.5		31.6
16558	51.2		54.9
16559	37.2		39.9
16560	48.6		52.1
16561	72.2		77.4
16562	70.4		75.5
STD 1	12.0		12.9
16563	72.0	72.4	77.2
16564	77.8		83.4
16565	81.0		86.9
16566	79.6		85.4
16567	65.4		70.1
16568	80.0		85.8
16569	87.4		93.7
16570	85.2		91.4
16571	48.3		51.8
16572	9.9		10.6
16573	22.8	22.7	24.5
16574	50.6		54.3
16575	0.5		0.5

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
16576	48.2		51.7
16577	70.4		75.5
16578	74.4	73.0	79.8
16579	59.4		63.7
16580	74.8		80.2
16581	72.4		77.7
STD 2	46.5		49.9
16582	72.0	72.2	77.2
16583	0.4		0.4
16584	27.6		29.6
16585	29.0		31.1
16586	5.0		5.4
16587	13.8		14.8
16588	15.2		16.3
16589	43.3		46.4
16590	58.4		62.6
16591	8.2		8.8
16592	1.6	1.6	1.7
16593	4.3		4.6
16594	8.4		9.0
16595	5.5		5.9
16596	17.3		18.6
16597	25.9		27.8
16598	9.2		9.9
16599	24.3		26.1
16600	17.4		18.7
13951	66.0		70.8
13952	46.8		50.2
13953	48.8		52.3
13954	16.5	16.5	17.7
13955	0.4		0.4
13956	59.6		63.9
13957	83.6	83.0	89.7
13958	76.8		82.4
13959	56.0		60.1
13960	82.6		88.6
13961	49.3		52.9
13962	12.7		13.6
13963	7.1	6.8	7.6
STD 3	80.2		86.0



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

### CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
13964	77.0		82.6
13965	92.0		98.7
13966	73.0		78.3
13967	60.6		65.0
13968	51.4		55.1
13969	43.0		46.1
13970	52.2		56.0
13971	68.2		73.2
13972	66.8		71.7
13973	68.0	68.2	72.9
13974	38.2		41.0

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve



Acme Metallurgical Limited  
1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

### JOB INFORMATION, AML11006S5

---

**Client:** Edward Lyons  
Ridgemont Iron Ore Corp.  
1240 - 1140 W. Pender St.  
Vancouver, BC V6E 4G1  
Canada

**Project Name:** Redford Iron  
**Project Number:** 11006  
**Operator:** Sarah Saw  
**Date Completed:** 27-Sep-11

**Results To:** Edward Lyons  
Larry Poznikoff  
Greg Butt  
Arnie Pollmer

[elyons@explorationgroup.com](mailto:elyons@explorationgroup.com)  
[lpoznikoff@explorationgroup.com](mailto:lpoznikoff@explorationgroup.com)  
[gbutt@explorationgroup.com](mailto:gbutt@explorationgroup.com)  
[apollmer@explorationgroup.com](mailto:apollmer@explorationgroup.com)

**QC/QA:** STD -1, Satmagan reading 12.1%  
STD -2, Satmagan reading 46.8%  
STD -3, Satmagan reading 79.8%

*Danny Kwok*

---

**Authorized By**

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
14801	16.5		17.7
14802	0.3		0.3
14803	20.8		22.3
14804	9.1		9.8
14805	0.4		0.4
14806	16.8		18.0
14807	80.8		86.7
14808	83.4	83.6	89.5
14809	77.8		83.4
14810	81.0		86.9
14811	76.6		82.2
14812	74.0		79.4
14813	69.0		74.0
14814	78.4		84.1
14815	76.4		81.9
14816	79.4		85.2
14817	89.8		96.3
STD 1	12.2		13.1
14818	84.8	84.8	91.0
14819	77.0	76.8	82.6
14820	80.6		86.5
14821	16.2		17.4
14822	68.0		72.9
14823	60.4		64.8
14824	41.0		44.0
14825	71.6		76.8
14826	83.6		89.7
14827	79.8	79.8	85.6
14828	67.8		72.7
14829	65.6		70.4
14830	50.6		54.3
14831	66.8		71.7
14832	65.0		69.7
14833	73.8		79.2
14834	78.8		84.5
14835	69.2		74.2
14836	59.8		64.1
14837	80.8		86.7
14838	73.6		78.9
14839	39.1		41.9

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
14840	33.4		35.8
14841	15.8		16.9
14842	79.4		85.2
STD 2	46.7		50.1
14843	88.4	88.4	94.8
14844	0.3		0.3
14845	93.4		100.2
14846	35.7		38.3
14847	0.3		0.3
14848	32.7		35.1
14849	71.2		76.4
14850	84.4		90.5
14851	66.6		71.4
14852	70.4		75.5
14853	47.8	48.0	51.3
14854	64.4	64.4	69.1
14855	4.8		5.1
14901	9.0		9.7
14902	26.8		28.7
14903	57.2		61.4
14904	47.5		50.9
14905	53.2		57.1
14906	33.2		35.6
14907	83.4		89.5
14908	82.8	83.2	88.8
14909	72.4		77.7
14910	41.4		44.4
14911	26.2		28.1
14951	5.2		5.6
14952	4.2		4.5
14953	12.5		13.4
14954	74.8		80.2
14955	66.0		70.8
14956	50.2		53.8
STD 3	80.2		86.0
14957	13.0	13.0	13.9
14958	48.5		52.0
14959	87.0		93.3
14960	81.0		86.9
14961	87.6		94.0





Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
14962	84.0		90.1
14963	83.8	84.0	89.9
14964	81.8		87.7
14965	80.2		86.0
14966	81.2	81.4	87.1
14967	54.0		57.9
14968	76.2		81.7
14969	80.2		86.0
14970	93.4		100.2
14971	84.4		90.5
14972	75.2		80.7
14973	73.8		79.2
14974	80.6		86.5
14975	88.0		94.4
14976	82.6		88.6
14977	85.0		91.2
14978	88.4		94.8
14979	86.6		92.9
14980	87.6		94.0
14981	17.0		18.2
14982	12.0	12.0	12.9
14983	57.2		61.4
14984	3.5		3.8
14985	41.1		44.1
15001	3.2		3.4
15002	22.0		23.6
15003	92.0		98.7
15004	88.2		94.6
15005	58.0		62.2
15006	12.7		13.6
STD 1	12.2		13.1
15007	45.3	45.3	48.6
15008	52.8		56.6
15009	34.1		36.6
15010	60.0		64.4
15011	94.0		100.8
15012	90.6		97.2
15013	89.6		96.1
15014	68.4		73.4
15015	27.0	27.0	29.0

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
15016	0.5		0.5
15017	84.8		91.0
15018	53.8		57.7
15019	39.3		42.2
15020	78.4		84.1
15021	81.6		87.5
15022	76.4		81.9
15023	70.8		75.9
15024	49.2		52.8
STD 2	47.0		50.4
15025	85.4	85.2	91.6
15026	87.4		93.7
15027	81.8		87.7
15028	88.2		94.6
15029	89.4		95.9
15030	88.8		95.2
15031	88.0		94.4
15032	83.4		89.5
15033	88.4		94.8
15034	90.2	90.4	96.7
15035	90.0		96.5
15036	91.2		97.8
15037	83.0		89.0
15038	64.8		69.5
15039	10.5		11.3
15040	10.0		10.7
15041	5.2		5.6
15042	13.5		14.5
15043	15.1		16.2
15044	1.0		1.1
15045	9.1		9.8
15046	8.9		9.5
15047	27.9		29.9
15048	22.0		23.6
15049	5.6		6.0
15050	4.0		4.3
15051	4.0		4.3
15052	0.3		0.3
15053	1.3	1.3	1.4
15054	21.8		23.4





Acme Metallurgical Limited  
1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

### JOB INFORMATION, AML11006S4

---

**Client:** Edward Lyons  
Ridgemont Iron Ore Corp.  
1240 - 1140 W. Pender St.  
Vancouver, BC V6E 4G1  
Canada

**Project Name:** Redford Iron  
**Project Number:** 11006  
**Operator:** Sarah Saw

**Results To:** Edward Lyons [elyons@explorationgroup.com](mailto:elyons@explorationgroup.com)  
Larry Poznikoff [lpoznikoff@explorationgroup.com](mailto:lpoznikoff@explorationgroup.com)  
Greg Butt [gbutt@explorationgroup.com](mailto:gbutt@explorationgroup.com)  
Arnie Pollmer [apollmer@explorationgroup.com](mailto:apollmer@explorationgroup.com)

**QC/QA:** STD -1, Satmagan reading 12.1%  
STD -2, Satmagan reading 46.8%  
STD -3, Satmagan reading 79.8%

*Danny Kwok*

---

Authorized By

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
14351	0.9		1.0
14352	0.5		0.5
14353	7.1		7.6
14354	47.8	48.6	51.3
14355	66.8		71.7
14356	56.2		60.3
14357	26.8	26.9	28.7
14358	34.5		37.0
14359	73.8		79.2
14360	33.9		36.4
14361	42.6		45.7
14362	18.7		20.1
14363	0.9		1.0
14364	19.6		21.0
14365	16.7		17.9
14366	40.6		43.5
STD 1	12.0		12.9
14367	5.9	5.8	6.3
14368	12.0		12.9
14369	3.5		3.8
14370	0.9		1.0
14371	1.4		1.5
14372	0.3		0.3
14373	0.4		0.4
14374	0.3		0.3
14375	2.2		2.4
14376	11.5		12.3
14377	22.0	22.0	23.6
14378	6.9		7.4
14379	25.6		27.5
14380	12.9		13.8
14381	9.8		10.5
14382	17.3		18.6
14383	22.5		24.1
14384	0.5		0.5
14385	41.2		44.2
14451	1.1		1.2
14452	5.3		5.7
14453	10.4		11.2
14454	0.2	0.2	0.2

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
14455	3.4		3.6
14456	0.1		0.1
STD 2	46.9		50.3
14457	6.7	6.7	7.2
14458	17.9		19.2
14459	35.4		38.0
14460	52.0		55.8
14461	48.4		51.9
14462	46.4		49.8
14463	43.7		46.9
14464	56.0		60.1
14465	14.2		15.2
14466	40.5		43.4
14467	76.4	76.6	81.9
14468	80.4		86.2
14469	82.6		88.6
14470	81.2		87.1
14471	9.1		9.8
14472	4.7		5.0
14473	9.6		10.3
14474	73.0		78.3
14475	26.5		28.4
14476	35.6		38.2
STD 3	80.2		86.0
14477	67.8	68.0	72.7
14478	85.0		91.2
14479	89.4		95.9
14480	69.6		74.7
14481	0.6		0.6
14482	64.8		69.5
14483	84.6		90.7
14484	22.4		24.0
14485	4.3		4.6
14486	64.0		68.6
14487	20.7		22.2
14488	40.8		43.8
14489	75.6	75.0	81.1
14490	43.4		46.6
14491	57.2		61.4
14492	41.9	41.9	44.9



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
14493	59.6		63.9
14494	65.8		70.6
14495	21.2		22.7
14496	11.4		12.2
14501	4.3		4.6
14502	0.8		0.9
14503	7.1		7.6
14504	40.9		43.9
14505	7.6		8.2
STD 1	12.0		12.9
14506	0.2	0.2	0.2
14507	53.6		57.5
14508	69.0		74.0
14509	24.0		25.7
14510	78.0		83.7
14511	85.0		91.2
14512	79.8		85.6
14513	79.0		84.7
14514	48.8		52.3
14515	79.4		85.2
14516	83.6	83.0	89.7
14517	86.2		92.5
14518	84.6		90.7
14519	78.2		83.9
14520	66.4		71.2
14521	2.3		2.5
14522	34.6		37.1
14523	36.1		38.7
14524	70.0	70.0	75.1
14525	83.2		89.2
14526	89.4		95.9
14527	83.8		89.9
14528	85.0		91.2
14529	74.6		80.0
14530	59.4		63.7
STD 2	46.5		49.9
14531	0.6	0.6	0.6
14532	15.4		16.5
14533	70.0		75.1
14534	87.0		93.3

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
14535	86.6		92.9
14536	86.4		92.7
14537	75.0		80.4
14538	84.0		90.1
14539	81.6		87.5
14540	83.4		89.5
14541	62.4	62.0	66.9
14542	79.6		85.4
14543	65.4		70.1
14544	0.5		0.5
14545	70.4		75.5
14546	77.2		82.8
14547	57.2		61.4
14548	45.9		49.2
14549	57.8		62.0
14550	61.0		65.4
STD 3	80.5		86.3
14551	55.8	56.0	59.9
14552	74.4		79.8
14553	63.2		67.8
14554	37.8		40.5
14555	44.7		47.9
14556	48.0		51.5
14557	62.6		67.1
14558	52.8		56.6
14559	63.8	64.0	68.4
14560	61.0		65.4
14561	61.4		65.9
14562	46.9		50.3
14563	17.4		18.7
14564	40.8		43.8
14565	0.5		0.5
14566	0.5		0.5
14567	19.6		21.0
14568	1.3		1.4
14569	1.0		1.1
14570	2.0		2.1
14571	22.5		24.1
STD 1	12.0		12.9
14572	17.8	17.8	19.1



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
14573	12.9		13.8
14574	7.5		8.0
14575	24.5		26.3
14576	33.2		35.6
14577	13.9		14.9
14578	5.5		5.9
14579	4.1		4.4
14580	4.4		4.7
14581	4.8		5.1
14601	0.5	0.5	0.5
14602	51.4		55.1
14603	64.0		68.6
14604	60.8		65.2
14605	76.4		81.9
14606	65.6		70.4
14607	52.8		56.6
14608	65.6		70.4
14609	79.2		85.0
14610	86.4		92.7
STD 2	46.6		50.0
14611	85.0	85.0	91.2
14612	79.4		85.2
14613	73.8		79.2
14614	47.7		51.2
14615	0.7		0.8
14616	86.0		92.2
14617	78.8		84.5
14618	83.0		89.0
14619	83.0		89.0
14620	87.0		93.3
14621	77.6		83.2
14622	90.0		96.5
14623	92.4		99.1
14624	86.8		93.1
14625	80.0		85.8
14626	86.4	87.0	92.7
14627	89.6		96.1
14628	87.0		93.3
14629	84.6		90.7
14630	86.2		92.5

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
14631	88.2		94.6
14632	86.4		92.7
14633	84.4		90.5
14634	83.6		89.7
14635	83.0		89.0
STD 3	80.5		86.3
14636	71.2	70.6	76.4
14637	75.6		81.1
14638	74.0		79.4
14639	83.8		89.9
14640	81.2		87.1
14641	82.4		88.4
14642	83.8		89.9
14643	69.4		74.4
14644	66.0		70.8
14645	66.8		71.7
14646	66.4	66.0	71.2
14647	54.0		57.9
14648	63.4		68.0
14649	68.0		72.9
14650	46.4		49.8
14651	71.4		76.6
14652	72.6		77.9
14653	64.8		69.5
14654	56.8		60.9
14655	41.0		44.0
14656	61.6		66.1
14657	77.6		83.2
14658	65.6		70.4
14659	11.5		12.3
14660	7.8		8.4
STD 1	12.0		12.9
14661	39.4	39.4	42.3
14662	51.6		55.3
14663	3.4		3.6
14664	0.3		0.3
14665	0.5		0.5
14701	0.4		0.4
14702	43.3		46.4
14703	0.5		0.5



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
14704	55.4		59.4
14705	32.7		35.1
14706	14.0		15.0
14707	16.7		17.9
14708	79.0	79.6	84.7
14709	84.8		91.0
14710	85.4		91.6
14711	81.0	81.4	86.9
14712	81.6		87.5
14713	42.6		45.7
14714	29.7		31.9
14715	63.0		67.6
14716	43.1		46.2
STD 2	46.4		49.8
14717	69.4	69.6	74.4
14718	89.6		96.1
14719	88.8		95.2
14720	91.6		98.3
14721	17.0		18.2
14722	0.9		1.0
14723	41.0		44.0
14724	0.7		0.8
14725	0.5		0.5
14726	1.5		1.6
14751	57.4	57.2	61.6
14752	73.2		78.5
14753	35.7		38.3
14754	38.1		40.9
14755	64.2		68.9
14756	77.6		83.2
14757	59.0		63.3
14758	73.2		78.5
14759	65.8		70.6
14760	33.5		35.9
14761	46.0		49.3
14762	62.2		66.7
14763	76.4		81.9
14764	77.2		82.8
14765	24.4		26.2
14766	80.8		86.7

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
STD 3	80.3		86.1
14767	63.8	64.0	68.4
14768	83.2		89.2
14769	85.8		92.0
14770	79.6	79.2	85.4
14771	14.1		15.1
14772	41.1		44.1
14773	1.3		1.4
14774	0.6		0.6
14775	1.5		1.6
14776	18.2	18.3	19.5
14777	6.0		6.4
14778	31.4		33.7
14779	51.4		55.1
14780	6.4		6.9
14781	1.7		1.8
14782	39.6		42.5
14783	74.4		79.8
14784	80.4		86.2
14785	76.2		81.7
STD 1	12.1		13.0
14786	84.4	84.4	90.5
14787	15.5		16.6
14788	73.4		78.7
14789	84.2		90.3
14790	77.6		83.2
14791	73.2		78.5
14792	0.7		0.8
14793	67.4		72.3
14794	38.9		41.7
14795	36.1		38.7
14666	6.0		6.4
14667	0.4		0.4
14668	68.8		73.8
14669	78.2		83.9
14670	69.8		74.9
14671	50.2		53.8
14672	25.3	25.3	27.1
14673	19.5		20.9
14674	14.7		15.8



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

### CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
14675	0.4	0.4	0.4
14676	2.4		2.6
14677	0.3		0.3
14678	5.5		5.9
14679	19.2		20.6
14680	29.1		31.2
STD 2	46.1		49.4
14681	29.5	29.4	31.6
14682	30.6		32.8
14683	29.6		31.7
14684	30.0		32.2
14685	2.8		3.0
14686	2.5		2.7

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve





Acme Metallurgical Limited  
1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

### JOB INFORMATION, AML11006S3

---

**Client:** Edward Lyons  
Ridgemont Iron Ore Corp.  
1240 - 1140 W. Pender St.  
Vancouver, BC V6E 4G1  
Canada

**Project Name:** Redford Iron  
**Project Number:** 11006  
**Operator:** Sarah Saw

**Results To:** Edward Lyons [elyons@explorationgroup.com](mailto:elyons@explorationgroup.com)  
Larry Poznikoff [lpoznikoff@explorationgroup.com](mailto:lpoznikoff@explorationgroup.com)  
Greg Butt [gbutt@explorationgroup.com](mailto:gbutt@explorationgroup.com)  
Arnie Pollmer [apollmer@explorationgroup.com](mailto:apollmer@explorationgroup.com)

**QC/QA:** STD -1, Satmagan reading 12.1%  
STD -2, Satmagan reading 46.8%  
STD -3, Satmagan reading 79.8%

*Danny Kwok*

---

**Authorized By**

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client.



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

**CERTIFICATE OF SATMAGAN ANALYSIS**  
 Ridgmont Iron Ore Corp.

Sample ID	%Magnetite	
	Satmagan	Sat. Duplicate
14101	1.1	1.2
14102	31.6	33.9
14103	6.3	6.8
14104	2.9	3.1
14105	29.3	31.4
14106	16.2	17.4
14107	29.4	29.4
14108	32.1	34.4
14109	34.4	36.9
14110	32.5	34.9
14111	62.8	67.4
14112	73.6	78.9
14113	70.4	75.5
14114	64.4	69.1
14115	76.6	82.2
14116	63.4	68.0
14117	70.4	70.4
STD-1	12.1	13.0
14118	77.8	83.4
14119	47.5	50.9
14120	32.0	34.3
14151	1.1	1.2
14152	0.2	0.2
14153	49.4	53.0
14154	22.7	24.3
14155	22.3	23.9
14156	43.2	46.3
14157	53.6	53.4
14158	65.4	70.1
14159	43.6	46.8
14160	27.2	29.2
14161	30.3	32.5
14162	31.5	33.8
14163	34.3	36.8
14164	67.2	72.1
14165	60.2	64.6
14166	86.4	92.7
14167	87.0	93.3
14168	84.8	91.0
14169	86.6	92.9

Sample ID	%Magnetite	
	Satmagan	Sat. Duplicate
14170	79.4	85.2
14171	83.2	89.2
14172	0.7	0.6
STD-2	46.8	50.2
14173	81.6	87.5
14174	79.2	85.0
14175	76.4	81.9
14176	70.8	75.9
14177	76.8	82.4
14178	65.0	69.7
14179	64.6	69.3
14180	71.6	76.8
14181	71.4	76.6
14182	7.5	7.5
14183	2.8	3.0
14184	0.6	0.6
14201	12.5	13.4
14202	9.5	10.2
14203	23.1	24.8
14204	1.1	1.2
14205	16.0	17.2
14206	66.0	70.8
14207	60.2	64.6
14208	36.9	39.6
14209	30.4	30.5
STD-3	79.6	85.4
14210	55.4	59.4
14211	0.4	0.4
14212	0.4	0.4
14213	39.8	42.7
14214	55.6	59.6
14215	48.7	52.2
14216	58.4	62.6
14217	77.2	82.8
14218	18.5	19.8
14219	40.6	43.5
14251	0.1	0.1
14252	64.2	68.9
14253	76.8	82.4
14254	77.6	83.2



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

**CERTIFICATE OF SATMAGAN ANALYSIS**  
 Ridgmont Iron Ore Corp.

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
14255	18.0		19.3
14256	63.8		68.4
14257	88.4	88.2	94.8
14258	68.8		73.8
14259	64.4		69.1
14260	88.8		95.2
14261	90.0		96.5
14262	88.4		94.8
14263	84.4		90.5
14264	87.0		93.3
14265	85.0		91.2
14266	78.0		83.7
14267	76.2	76.0	81.7
STD-1	12.1		13.0
14268	81.8		87.7
14269	80.8		86.7
14270	62.4		66.9
14271	20.8		22.3
14272	14.8		15.9
14273	26.3		28.2
14274	25.2		27.0
14275	17.1		18.3
14276	13.0		13.9
14277	11.4	11.4	12.2
14278	19.0		20.4
14279	19.2		20.6
14301	0.8		0.9
14302	0.7		0.8
14303	0.4		0.4
14304	2.1		2.3
14305	40.6		43.5
14306	55.8		59.9
14307	68.2		73.2
14308	28.3		30.4
14309	24.4		26.2
14310	12.6		13.5
14311	37.2		39.9
14312	76.6		82.2
14313	74.0		79.4
14314	18.7		20.1

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
14315	27.9	26.9	29.9
STD-2	46.2		49.6
14316	59.6		63.9
14317	53.6		57.5
14318	2.9		3.1
14319	23.5		25.2
14320	1.7		1.8
14401	15.4		16.5
14402	39.2		42.0
14403	0.6		0.6
14404	27.7		29.7
14405	20.8		22.3
14406	63.4		68.0
14407	62.4	61.6	66.9
14408	40.1		43.0
14409	25.7		27.6
14410	64.6		69.3
14411	69.2		74.2
14412	72.0		77.2
14413	64.6		69.3
14414	6.5		7.0
14415	0.5		0.5
14416	3.5		3.8
14417	0.8	0.7	0.9
STD-3	79.9		85.7



Acme Metallurgical Limited  
1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

### JOB INFORMATION, AML11006S2

---

**Client:** Edward Lyons  
Ridgemont Iron Ore Corp.  
1240 - 1140 W. Pender St.  
Vancouver, BC V6E 4G1  
Canada

**Project Name:** Redford Iron  
**Project Number:** 11006  
**Operator:** Sarah Saw

**Results To:** Edward Lyons [elyons@explorationgroup.com](mailto:elyons@explorationgroup.com)  
Larry Poznikoff [lpoznikoff@explorationgroup.com](mailto:lpoznikoff@explorationgroup.com)  
Greg Butt [gbutt@explorationgroup.com](mailto:gbutt@explorationgroup.com)  
Arnie Pollmer [apollmer@explorationgroup.com](mailto:apollmer@explorationgroup.com)

**QC/QA:** STD -1, Satmagan reading 12.1%  
STD -2, Satmagan reading 46.8%  
STD -3, Satmagan reading 79.8%

*Danny Kwok*

---

**Authorized By**

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client.



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

**CERTIFICATE OF SATMAGAN ANALYSIS**  
 Ridgmont Iron Ore Corp.

Sample ID	%Magnetite	
	Satmagan	Sat. Duplicate
12817	33.8	36.3
12818	26.7	28.6
12819	71.0	76.2
12820	78.4	84.1
12821	5.1	5.5
12822	26.4	28.3
12823	65.2	66.2
12824	40.2	43.1
12825	45.0	48.3
12826	2.0	2.1
12827	21.7	23.3
12828	60.6	65.0
12829	13.9	14.9
12830	44.1	47.3
12831	2.0	2.1
12832	18.2	19.5
12833	20.7	22.2
12834	13.7	13.7
STD-1	12.0	12.9
12835	26.0	27.9
12836	14.6	15.7
12837	2.2	2.4
12838	13.2	14.2
12839	23.3	25.0
12840	8.6	9.2
12841	1.1	1.2
12842	0.4	0.4
12843	11.2	12.0
12844	11.0	11.0
12845	23.7	25.4
12846	11.5	12.3
12847	17.0	18.2
12848	30.8	33.0
12849	29.4	31.5
12851	9.4	9.3
12852	65.9	70.7
12853	77.2	82.8
12854	82.0	87.9
12855	59.6	63.9
12856	80.3	86.1

Sample ID	%Magnetite	
	Satmagan	Sat. Duplicate
12857	63.3	67.9
12858	83.2	89.2
12859	81.7	87.6
12860	70.2	70.6
STD-2	46.5	49.9
12861	50.6	54.2
12862	23.9	25.6
12863	47.2	50.6
12864	65.6	70.4
12865	32.1	34.4
12866	46.1	49.4
12867	5.6	6.0
12868	0.5	0.5
12869	0.5	0.5
12870	5.9	5.9
12871	29.3	31.4
12872	57.6	61.8
12873	17.0	18.2
12874	2.3	2.4
12875	1.0	1.1
12876	0.5	0.5
12877	1.2	1.3
12878	1.2	1.3
12879	0.3	0.3
12880	0.6	0.6
STD-3	80.3	86.1
12881	0.5	0.5
12882	0.7	0.8
12883	0.3	0.3
12884	6.1	6.5
12885	8.5	9.1
12886	4.9	4.9
12887	5.6	6.0
12888	40.7	43.6
12889	2.0	2.1
12890	0.2	0.2
12891	0.6	0.6
12892	0.5	0.5
12893	0.3	0.3
12894	0.5	0.5



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

**CERTIFICATE OF SATMAGAN ANALYSIS**  
 Ridgmont Iron Ore Corp.

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
12895	0.9	0.9	1.0
12896	0.3		0.3
12901	0.3		0.3
12902	62.5		67.0
12903	86.3		92.6
12904	71.4		76.6
12905	70.5		75.6
12906	69.2		74.2
12907	74.5		79.9
12908	71.5		76.7
12909	66.7	66.7	71.5
STD-1	12.2		13.0
12910	56.8		60.9
12911	58.7		62.9
12912	54.7		58.6
12913	1.3		1.3
12914	55.8		59.9
12915	60.3		64.7
12916	60.0		64.4
12917	54.4		58.4
12918	56.5		60.6
12919	44.8	44.6	48.1
12920	65.9		70.7
12921	63.2		67.7
12922	56.8		60.9
12923	64.0		68.6
12924	59.1		63.3
12925	45.4	46.2	48.7
12926	57.0		61.1
12927	59.8		64.1
12928	46.5		49.9
12929	16.0		17.2
12930	55.2		59.2
12931	7.7		8.2
12932	29.5		31.6
12933	40.4		43.3
12934	56.8	57.0	60.9
STD-2	46.3		49.6
12935	59.2		63.5
12936	65.7		70.5

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
12937	48.1		51.5
12938	49.2		52.8
12939	67.9		72.8
12940	70.2		75.3
12941	89.3		95.7
12942	87.1		93.4
12943	85.4		91.5
12944	74.4	75.0	79.8
12945	31.6		33.8
12946	1.3		1.3
12947	78.3		84.0
12948	86.9		93.2
12949	86.1		92.4
12950	84.1		90.2
12951	83.9		89.9
12952	66.3		71.1
12953	8.2		8.8
12954	8.7	8.7	9.3
STD-3	80.0		85.8
12955	21.4		22.9
12956	10.0		10.7
12957	4.6		4.9
12958	5.1		5.5
12959	3.8		4.0
12960	23.2	23.7	24.9
12961	53.0		56.8
12962	69.5		74.5
12963	71.8		77.0
12964	72.0		77.2
12965	70.2		75.3
12966	72.9		78.2
12967	65.7		70.5
12968	78.0		83.7
12969	58.9	58.2	63.2
12970	50.5		54.2
12971	28.4		30.5
12972	5.7		6.1
12973	9.5		10.1
12974	12.3		13.1
12975	0.7		0.7





Acme Metallurgical Limited  
1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
Tel: (604) 253-3158

## CERTIFICATE OF SATMAGAN ANALYSIS

Ridgemont Iron Ore Corp.

### JOB INFORMATION, AML11006S1

---

**Client:** Edward Lyons  
Ridgemont Iron Ore Corp.  
1240 - 1140 W. Pender St.  
Vancouver, BC V6E 4G1  
Canada

**Project Name:** Redford Iron  
**Project Number:** 11006  
**Operator:** Anthony Rahardjo

**Results To:** Edward Lyons [elyons@explorationgroup.com](mailto:elyons@explorationgroup.com)  
Larry Poznikoff [lpoznikoff@explorationgroup.com](mailto:lpoznikoff@explorationgroup.com)  
Greg Butt [gbutt@explorationgroup.com](mailto:gbutt@explorationgroup.com)  
Arnie Pollmer [apollmer@explorationgroup.com](mailto:apollmer@explorationgroup.com)

*Danny Kwok*

---

**Authorized By**

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client.





Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

**CERTIFICATE OF SATMAGAN ANALYSIS**  
 Ridgmont Iron Ore Corp.

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
12601	66.4		71.2
12602	71.4	71.3	76.6
12603	77.8		83.4
12604	1.5		1.6
12605	70.3		75.4
12606	78.1		83.8
12607	75.4	75.5	80.9
12608	59.6		63.9
12609	71.3		76.5
12610	71.4		76.6
12611	73.7		79.1
12612	0.9		0.9
12613	22.4		24.0
12614	32.1		34.4
12615	0.3		0.3
12616	57.9		62.1
12617	0.0	0.2	0.0
12618	0.4		0.4
12619	0.2		0.2
12620	0.3		0.3
12621	0.0		0.0
12622	0.0		0.0
12623	0.0		0.0
12624	0.0		0.0
12625	0.0		0.0
12626	0.1		0.1
12627	0.1	0.1	0.1
12628	41.3		44.3
12629	74.8		80.2
12630	65.1		69.8
12631	56.5		60.6
12632	36.6		39.2
12633	86.7		93.0
12634	61.7		66.2
12635	41.2		44.2
12636	79.9		85.7
12637	76.1	74.9	81.6
12638	80.1		85.9
12639	82.3		88.3
12640	80.6		86.5

Sample ID	%Magnetite		
	Satmagan	Sat. Duplicate	Cal. Curve
12641	76.8		82.4
12642	47.6	48.0	51.1
12643	67.5		72.4
12644	79.8		85.6
12645	84.1		90.2
12646	80.4		86.2
12647	69.1		74.1
12648	70.5		75.6
12649	58.6		62.9
12650	66.1		70.9
12651	68.3		73.3
12652	64.4	64.4	69.1
12653	55.2		59.2
12654	73.5		78.8
12655	73.3		78.6
12656	75.0		80.4
12657	77.4		83.0
12658	77.4		83.0
12659	43.6		46.8
12660	15.8		16.9
12661	0.2		0.2
12662	1.0	0.9	1.1
12663	13.5		14.5
12664	31.0		33.3
12665	13.5		14.5
12666	74.8		80.2
12667	73.6		78.9
12668	76.1		81.6
12669	38.0		40.8
12670	66.8		71.7
12671	83.2		89.2
12672	55.4	55.7	59.4
12673	62.9		67.5
12674	24.5		26.3
12675	0.5		0.5
12676	40.2		43.1
12677	41.9	42.3	44.9
12678	60.4		64.8
12679	42.5		45.6
12751	3.4		3.6



Acme Metallurgical Limited  
 1020 Cordova St. East Vancouver BC V6A 4A3 CANADA  
 Tel: (604) 253-3158

**CERTIFICATE OF SATMAGAN ANALYSIS**  
 Ridgmont Iron Ore Corp.

Sample ID	%Magnetite	
	Satmagan	Sat. Duplicate
12752	0.3	0.3
12753	73.6	78.9
12754	80.6	86.5
12755	80.5	86.3
12756	0.5	0.5
12757	83.1	89.1
12758	82.8	82.9
12759	80.8	86.7
12760	84.3	90.4
12761	82.5	88.5
12762	81.0	86.9
12763	83.4	89.5
12764	81.6	87.5
12765	79.2	85.0
12766	74.9	80.3
12767	86.0	92.2
12768	82.2	82.3
12769	87.8	94.2
12770	85.1	91.3
12771	78.9	84.6
12772	79.0	84.7
12773	79.8	85.6
12774	75.5	81.0
12775	81.5	87.4
12776	83.4	89.5
12777	86.6	92.9
12778	85.6	86.2
12779	84.3	90.4
12780	71.7	76.9
12781	80.4	86.2
12782	55.1	59.1
12783	85.7	85.8
12784	83.5	89.6
12785	84.4	90.5
12786	85.8	92.0
12787	80.9	86.8
12788	77.1	82.7
12789	23.7	25.4
12790	74.1	79.5
12791	8.2	8.8

Sample ID	%Magnetite	
	Satmagan	Sat. Duplicate
12792	1.0	1.1
12793	33.4	33.5
12794	45.5	48.8
12795	58.9	63.2
12796	0.5	0.5
12797	75.8	81.3
12798	72.4	77.7
12799	64.1	68.8
12800	79.1	84.8
12701	19.7	21.1
12702	3.5	3.8
12703	46.2	46.1
12704	19.6	21.0
12705	38.8	41.6
12706	40.4	43.3
12707	71.2	76.4
12708	82.8	88.8
12709	62.6	67.1
12710	76.4	81.9
12711	54.5	58.5
12712	76.5	82.1
12713	74.7	75.5
12714	77.2	82.8
12715	75.2	80.7
12716	83.1	89.1
12717	53.5	57.4
12718	13.1	12.9
12719	2.0	2.1
12720	26.2	28.1
12721	0.1	0.1
12722	5.2	5.6
12723	56.9	61.0
12724	24.5	26.3
12725	69.0	74.0
12726	72.5	77.8
12727	69.3	74.3
12728	74.7	75.0
12729	77.1	82.7
12730	76.2	81.7
12731	83.3	89.3



## **Appendix D**

### **Drill Logs**



Hole Name: RD11-61														
REDFORD IRON ORE PROJECT										Hole Length: 65.24				
Segment Start Depth: 43.54										Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45		Mb												
50		Mt	Medium to coarse grained, light grey marble, becoming slightly altered downhole from 46.50m to end of unit.	85	0	0	5	0	0	0	15535	49	50	74.4
			6.10-28.32m, broken/vuggy core.								15536	50	51	69.4
			32.20-32.36m, area of alteration, slight brecciated marble mixed with black matrix, possible black chlorite?? or possible altered basalt?? py 5% disseminated throughout.	90							15537	51	52	80.4
			39.94-40.04m, altered basalt intrusion, groundmass has been altered to green/black								15538	52	53	79.4
			40.15-40.44m, altered basalt intrusion, same as above.								15539	53	54	68.2
55			33.30, 2cm wide band of inclusions same as above, py 5%.	75	1	0	2	0	0	0	15540	54	55	62.8
											15541	55	56	59.8
											15542	56	57	25.4
60		Dt												
65			Magnetite mottled with garnet skarn and minor epidote becoming skarn dominated from 56.68 to end of unit.											
70			49.18-51.36m, Mt 85%, cpy 2%											
			51.36-53.52m, Mt 90%,											
			53.52-56.68m, skarn increases, Mt 75%, cpy 2%, py 1%											
75			Diorite with propylitic alteration of biotites and groundmass, rare garnet stringers throughout. From 59.32-60.14m, alteration increases with groundmass becoming massive and epidote altered calcite veins at 40 tca.											
80			65.24m, EOH											
85														
Scale 1:300			03/19/12					17:00:31						

Hole Name: RD11-60																
REDFORD IRON ORE PROJECT										Hole Length: 51.22						
Segment Start Depth: 0.00										Segment End Depth: 43.54						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
5		OB														
10			Medium to coarse grained, light grey marble with broken core throughout. From 25m to end of unit, marble contains areas of alteration and garnet skarn intrusions.													
15																
20	BC	Mb	Diorite with propylitic alteration of biotite phenos and groundmass, becoming increasingly altered downhole.													
25			29.16-29.60m, fault with skarn altered marble and diorite mixed with white chloritic? gouge. 29.60-31.60m, broken core. 31.83-32.46m, garnet skarn intrusion with secondary diopside and epidote grading back into diorite.													
30	FLTG BC		42.80-49.74m, Alteration increases with groundmass becoming black to grey/green in areas, with brecciated texture. Py 5% disseminated throughout. From 42.53-46.65m, fault with broken/rubbly core and gouge at contacts. 46.65-47.19m, altered andesite dyke with dark grey/green groundmass and aphanitic plag/hb phenos, dyke is siliceous with 10% py throughout. 49.30-49.74m, altered andesite dyke, same as above, 5%py													
35		Dt	51.22m, EOH													
40	FLTG															
				5	0	0	0	0	0	0						

Scale 1:300

03/19/12

17:00:17

Hole Name: RD11-60														
REDFORD IRON ORE PROJECT										Hole Length: 51.22				
Segment Start Depth: 43.54										Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45	FLTG	Dt			5	0	0	0	0	0				
					10	0	0	0	0	0				
50					5	0	0	0	0	0				
55			Diorite with propylitic alteration of biotite phenos and groundmass, becoming increasingly altered downhole. 29.16-29.60m, fault with skarn altered marble and diorite mixed with white chloritic? gouge. 29.60-31.60m, broken core. 31.83-32.46m, garnet skarn intrusion with secondary diopside and epidote grading back into diorite. 42.80-49.74m, Alteration increases with groundmass becoming black to grey/green in areas, with brecciated texture. Py 5% disseminated throughout. From 42.53-46.65m, fault with broken/rubby core and gouge at contacts. 46.65-47.19m, altered andesite dyke with dark grey/green groundmass and aphanitic plag/hb phenos, dyke is siliceous with 10% py throughout. 49.30-49.74m, altered andesite dyke, same as above, 5%py											
60														
65			51.22m, EOH											
70														
75														
80														
85														
Scale 1:300			03/19/12					17:00:17						



Hole Name: RD11-59																
REDFORD IRON ORE PROJECT											Hole Length: 75.00					
Segment Start Depth: 6.10											Segment End Depth: 49.64					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
10	BC-	Mb	<p>Coarse grained, light grey marble. Core becomes increasingly siliceous downhole.</p> <p>7.66-8.54m, broken/vuggy core  11.56-14.02m, broken core, skarn intrusion from 13.65-14.02m  17.15-17.93m, fault with gouge.  21.30-31.71m, broken/slightly vuggy core.  22.97-23.10m, area of alteration with fine, disseminated py 5%.  37.64-38.0m, altered basalt intrusion? 2% disseminated py  45.43-54.57m, core becomes altered, with a band of skarn alteration from 51.05-51.15m containing 1cm calcite vein  30tca at 51.12m.</p>													
15	BC-															
20	FLTG-															
25				5	0	0	0	0	0	0						
30																
35																
40				2	0	0	0	0	0	0						
45																
Scale 1:300				03/19/12				17:00:03								

Hole Name: RD11-59														
REDFORD IRON ORE PROJECT										Hole Length: 75.00				
Segment Start Depth: 49.64										Segment End Depth: 93.17				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
55		Mb	Coarse grained, light grey marble. Core becomes increasingly siliceous downhole. 7.66-8.54m, broken/vuggy core 11.56-14.02m, broken core, skarn intrusion from 13.65-14.02m 17.15-17.93m, fault with gouge. 21.30-31.71m, broken/slightly vuggy core. 22.97-23.10m, area of alteration with fine, disseminated py 5%.											
				90	2	0	0	0	0	0	15526	57	58	64.4
				80							15527	58	59	77.6
				85							15528	59	60	79.6
60		Mt	37.64-38.0m, altered basalt intrusion? 2% disseminated py 45.43-54.57m, core becomes altered, with a band of skarn alteration from 51.05-51.15m containing 1cm calcite vein 30tca at 51.12m.	90	1	0	0	0	0	0	15529	60	61	83.2
											15530	61	62	70.4
											15531	62	63	59.6
				75							15532	63	64	58
											15533	64	65	61.2
											15534	65	66	39.6
65														
70	FLTG	Dt	Magnetite mottled with garnet-diopside skarn and rare marble inclusions. From 65.60m to end of unit becomes garnet dominated with minor diopside and calcite stringers. 57.10-57.71m, Mt 90%, py 2% 57.71-58.17m, Mt 30% 58.17-59.22m, Mt 85% 59.22-61.81m, Mt 90%, rare py 61.81-65.6m, Mt 75%, marcasite 5%, 63.47m slickensides running parallel to core axis.											
75					5	0	0	1	0	0				
80														
85			Diorite with areas of propylitic alteration of biotite phenos and groundmass, ground mass is phaneritic. Garnet skarn intrusions throughout with secondary diopside and minor epidote, calcite stringers throughout. Intrusions are highly siliceous. 67.94-69.21m, faulted intrusion with gouge. 73.44-74.10m, py 5% disseminated along boundary of alteration and stringers, rare apy.											
90			75.0m, EOH											

Scale 1:300

03/19/12

17:00:03

Hole Name: RD11-58															
REDFORD IRON ORE PROJECT											Hole Length: 89.07				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		QB													
10															
15				20	5	10	0	0	0	0	15501	13	14	0.2	
20															
25			Medium to coarse grained, light grey marble.												
30	BC	Mb	13.38-13.65m, diopside skarn intrusion with 20%Mt, 10%pyr, 5% py along contacts. 24.75-32.73m, broken/vuggy core with areas of rubble. 41.46-42.11m, altered andesite dyke with 15 cm of garnet skarn starting at 41.96m. Skarn contains small band of 5% Mt.												
35															
40				5							15502	42	42.5	1.5	

Scale 1:300

03/19/12

16:59:50

Hole Name: RD11-58														
REDFORD IRON ORE PROJECT										Hole Length: 89.07				
Segment Start Depth: 43.54										Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45		Mb									15503	45	46	14.4
			Medium to coarse grained, light grey marble.								15504	46	47	73.2
				90	2	0	5	0	0	0	15506	47	48	77.6
			13.38-13.65m, diopside skarn intrusion with 20%Mt, 10%pyr, 5% py along contacts.								15507	48	49	85
50			24.75-32.73m, broken/vuggy core with areas of rubble.								15508	49	50	85
			41.46-42.11m, altered andesite dyke with 15 cm of garnet skarn starting at 41.96m. Skarn contains small band of 5% Mt.								15509	50	51	73.4
											15510	51	52	79.4
											15511	52	53	47.9
											15512	53	54	72.4
55				80	2	0	0	0	0	0	15513	54	55	83
											15514	55	56	76.6
											15515	56	57	80.4
											15516	57	58	75.8
											15517	58	59	66.2
60											15518	59	60	71
			Magnetite mottled with garnet skarn and relict marble blebs. Unit becomes garnet dominated from 65.66 to end of unit.								15519	60	61	53
											15520	61	62	46
			45.70-50.67m, Mt (90%) with 5% cpy, 2% py	75	2	0	0	0	0	0	15521	62	63	63.8
			50.67-58.67m, Mt (80%), py 2% as stringers.								15522	63	64	59.8
			58.67-65.66m, Mt (75%), py 2% as stringers.								15523	64	65	68.4
65											15524	65	66	34.2
70														
75														
			Diorite with propylitic alteration, biotites are being altered to epidote? Garnet skarn intrusions are present from 67.32 to 68.33m. In some areas quartz groundmass has been altered to a rose colored quartz.											
			72-74.80m, alteration increases and groundmass becomes massive with alteration halos around large (2-5mm) altered biotite phenos.											
80			78.97-85m, rare silicified calcite veins with epidote alteration, 40tca.											
			89.07m, EOH											
85														

Scale 1:300

03/19/12

16:59:50

Hole Name: RD11-58															
REDFORD IRON ORE PROJECT											Hole Length: 89.07				
Segment Start Depth: 87.07											Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
		Dt													
-90			Diorite with propylitic alteration, biotites are being altered to epidote? Garnet skarn intrusions are present from 67.32 to 68.33m. In some areas quartz groundmass has been altered to a rose colored quartz.												
-95			72-74.80m, alteration increases and groundmass becomes massive with alteration halos around large (2-5mm) altered biotite phenos. 78.97-85m, rare silicified calcite veins with epidote alteration, 40tca.												
-100			89.07m, EOH												
-105															
-110															
-115															
-120															
-125															
-130															
Scale 1:300			03/19/12					16:59:50							

Hole Name: RD11-57															
REDFORD IRON ORE PROJECT										Hole Length: 241.32					
Segment Start Depth: 0.00										Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5															
10		OB													
15															
20															
25			Siliceous diopside skarn with secondary garnet, silicified marble and minor pyroxene.												
30	BC	Sk	26.83-27.60m, Broken Core 28.30-29.10m, Broken core 21-33.56m, rare py bleb 31.24-35.05m, broken core 36.90-37.85m, broken core												
35	BC														
40	BC	And	Altered andesite, highly siliceous with bleached grey/green groundmass, 2-4mm plag phenos (20%) and aphanitic hb. Calcite vein/veinlets at random orientation.												
		Bs	Basalt with biotite alteration of groundmass and rare calcite and marcasite blebs. Core is siliceous from 42.30-44.13m.												
Scale 1:300				03/19/12				16:59:35							

Hole Name: RD11-57															
REDFORD IRON ORE PROJECT										Hole Length: 241.32					
Segment Start Depth: 43.54										Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45		Bs	Basalt with biotite alteration of groundmass and rare calcite and marcasite blebs. Core is siliceous from 42.30-44.13m.												
50															
55											15464	54	55	1.7	
				30							15465	55	56	7.5	
				30	10	0	0	0	0	0	15466	56	57	16.9	
											15467	57	58	0.7	
60			Garnet skarn with secondary diopside, minor quartz/epidote and areas that are siliceous throughout. Core is diopside dominated and bleached from 50.58 to 51.90m.												
65	BC-0 FLTG	Sk	54.85-57.65m, Skarn is brecciated in areas with 30% Mt infilling around skarn clasts, 10%py is present from 57.50-57.60m. Breccia continues until 57.85m. 66.71-67.16m, altered andesite dyke, broken core throughout. 64.73m, 5cm cubic py (5%). 67.68-68.70m, fault with gouge 70.04-70.50m, fracture with gouge running perpendicular to core axis. Cubic py (5%) disseminated throughout core. 75m-84.94m, skarn becomes diopside (60%) dominated with secondary garnet (30%) and minor pyroxene. From 83.95-86.64m, Mt (15%) belbs in skarn increasing to 20% from 86.86-86.94m.	5	0	0	0	0	0	0					
70				5	0	0	0	0	0	0					
75															
80															
85		Mt	Magnetite with brecciated diopside skarn with secondary garnet throughout. Graded upper and lower contacts.	15							15468	83	84	0.9	
				70							15469	84	85	0.7	
											15470	85	86	0.5	
											15471	86	87	8.7	
											15472	87	88	81.8	

Scale 1:300

03/19/12

16:59:35

Hole Name: RD11-57															
REDFORD IRON ORE PROJECT										Hole Length: 241.32					
Segment Start Depth: 87.07										Segment End Depth: 130.61					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
90		Mt	Magnetite with brecciated diopside skarn with secondary garnet throughout. Graded upper and lower contacts. Garnet skarn with secondary diopside and minor quartz? (5%)/epidote (5%). Calcite stringers throughout.	70							15472	87	88	31.8	
		Sk	89.68-89.93m, cubic py (2%) disseminated. 91.30-91.78m, Mt (30%) mixed with skarn. 91.57-92.53m, skarn becomes diopside dominated (90%) with calcite stringers and blebs. Magnetite matrix with brecciated diopside skarn with secondary garnet.	30	2	0	0	0	0	0	0	15473	88	89	29.7
95		Mt	92.53-93.69m, Mt 50% with altered tonalite? intrusion from 93.40 to 93.67m with 10% mt, 5% cubic py and 5 cm of gouge. 93.69-95.56m, Mt 70% 95.56-96.95m, Mt 45% with 5% cubic py from 95.56-95.72m and 96.77-96.95m.	50	5	0	0	0	0	0	0	15474	91	92	0.5
		Dt	Propylitic altered diorite with garnet skarn, epidote alteration throughout as well as calcite stringers. Cubic py 5% from 97.40-100.0m.	70	5	0	0	0	0	0	0	15476	92	93	14.7
100	FLTG FLT	Dt	Propylitic altered diorite with garnet skarn, epidote alteration throughout as well as calcite stringers. Cubic py 5% from 97.40-100.0m.	45	5	0	0	0	0	0	0	15477	93	94	26.7
		And	99.5m fine andesite with bright green groundmass, 1-3mm plagioclase (25%) and mm hb lathes (10%), calcite stringers and groundmass alteration throughout as well as along fracture planes. Rare 2-3mm cubic py. Core is slightly siliceous with groundmass becoming darker downhole.	45	10	0	0	0	0	0	0	15478	94	95	52.6
105		And	106.33-108.10m, garnet (80%) skarn intrusion with secondary epidote (10%) and diopside (10), minor silicified calcite and	20	5	0	0	0	0	0	0	15479	95	96	29.5
		Dt	Propylitic altered diorite same as described above. Core is highly siliceous with chaotic section of skarn alteration mixed with calcite and altered andesite from 112.22 to 112.51m.	20	1	0	0	0	0	0	0	15480	96	97	25.4
110		Dt	Chaotic rhodochrosite skarn with secondary diopside and pyroxene. Core is highly siliceous and bleached with areas of relict diorite containing skarn and propylitic alteration. Some minor epidote and silicified calcite veins/veinlets at random as well as rare garnet bands.								15481	97	98	8.5	
		Sk	119.87-120.20m, altered, siliceous basalt with biotite alteration of groundmass and calcite veins/veinlets at random.												
125		And	Andesite same as described above except groundmass is a dark grey with some muddy brown areas. Core is siliceous.												
		Dt	Propylitic altered diorite with epidote alteration of biotite phenos. Entire unit is broken with rubbly core and ends with 4cm of gouge.												
130	BC	Dt	Diopside skarn with secondary garnet and minor pyroxene. Calcite veins/veinlet at random with epidote alteration, unit ends with relict altered diorite from 132.65 to 133m. Core is slightly siliceous.												
		Sk													

Scale 1:300

03/19/12

16:59:35



Hole Name: RD11-57																
REDFORD IRON ORE PROJECT											Hole Length: 241.32					
Segment Start Depth: 130.61											Segment End Depth: 174.14					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
135	BC	Sk	Diopside skarn with secondary garnet and minor pyroxene. Calcite veins/veinlet at random with epidote alteration, unit ends with relict altered diorite from 132.65 to 133m. Core is slightly siliceous.													
		And	Andesite with alteration of groundmass throughout, groundmass varies from grey-muddy brown to black in areas. Calcite alteration throughout as well as rare veins at 50 tca. Unit becomes skarn altered downhole with intrusions of altered diorite. Broken core throughout entire unit.	5	0	0	0	0	0	0						
140	BC FLT	Sk	136.35-137.68m, very fine, disseminated py 5% mixed with skarn altered andesite.	0	0	0	0	0	0	25						
		And	Garnet skarn with secondary diopside and minor epidote. Calcite stringers and veinlets throughout. Altered diorite from 137.68-138.41m. Broken core throughout entire unit.													
145	BC	And	139.15-140.05m, fault, pulverized rubbly core. 139.62-140.18m, 25% hem mixed with skarn, with 5% from 140.18-140.28m.													
		Sk	Porphyritic andesite with grey groundmass, dessicated plag and mm hb lathes (15%). Calcite stringers and broken/blocky core throughout													
150	BC	Sk	141.90-142m, fault with slickensides and gouge.													
		And	Garnet skarn with minor diopside, quartz? (5%) and epidote, calcite stringers throughout. From 146.34 to 147.90m is an intrusion of propylitic altered diorite with skarn alteration, core is broken with areas of rubble. Core is siliceous throughout.	1	0	0	0	0	0	0						
155	BC	Dt	Porphyritic andesite with light grey groundmass, dessicated plag (25%), and hb lathes (10%). Calcite blebs and stringers throughout as well as rare py. Core is siliceous.	2	0	0	0	0	0	0						
		And	Diorite with propylitic alteration, epidote throughout with fine cubic py (2%) as well as blebs. Core is broken throughout unit and highly siliceous.													
160	FLTG	Sk	Garnet (85%) skarn with minor epidote (5%), pyroxene (5%) and calcite (5%) becoming diopside dominated downhole with secondary garnet and areas of magnetite.													
		And	161.43-163.40m, Diopside(90%)skarn is bleached in areas and contains minor pyroxene, calcite blebs/ stringers and marble inclusion.	35	15	0	0	0	0	0		15482	164	165	10.1	
165	BC	Sk	161.22-163.40m, fault with rubbly core and solidified gouge.													
		Sk	163.40-164.35m, andesite dyke	30								15483	165	166	28.2	
170	BC	Sk	164.35-166.85m, Mt (35%)mixed with skarn, py 15%													
		Sk	164.35-165.24m, broken core.									15484	166	167	22.1	
170	BC	Sk	168.14-168.50m, Mt 30%													
		Sk	171.27-173.35m, Mt 40%,py 10%									15485	167	168	1	
170	BC	And	Porphyritic andesite with grey groundmass, dessicated plag (30%) and hb (10%), rare calcite pheno and stringers.	40	10	0	0	0	0	0						
		And										15486	168	169	9.5	
170	BC	And														
		And										15487	171	172	8.9	
170	BC	And														
		And										15488	172	173	22.1	
170	BC	And														
		And										15489	173	174	13.7	

Scale 1:300

03/19/12

16:59:35

Hole Name: RD11-57																
REDFORD IRON ORE PROJECT											Hole Length: 241.32					
Segment Start Depth: 174.14											Segment End Depth: 217.68					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
		And	Porphyritic andesite with grey groundmass, dessicated plag (30%) and hb (10%), rare calcite pheno and stringers.													
180		Sk	Chaotic section, possible skarn alteration of marble and andesite?? Abundant epidote, with minor pyroxene, rhodochrosite and chlorite. Some garnet as well as diopside are also mixed in. Areas of relict altered andesite and marble can be seen.	2	10	0	0	0	0	0	15490	178	179	8.2		
185			178.61-178.80m Mt 2%, py 10%													
190																
195																
200		Mb	Medium to coarse grained, light grey marble with minor intrusions of bleached rhodochrosite with green fluorite?? as well diopside skarn throughout. Bands of garnet skarn become present downhole.													
205			206.71-208.48m, skarn altered andesite with green groundmass and areas of garnet skarn, epidote altered calcite veins 85 tca. Core is siliceous. 209.27-211.46m, andesite dyke with grey groundmass, dessicated plag/hb phenos. 216.60m, 10cm py in blebs 5%.													
210																
215		And	Andesite with light to medium grey groundmass with aphanitic plag and hb, becoming increasingly altered and siliceous downhole. From 220.71 to 221.35m, andesite is skarn altered.	5	0	0	0	0	0	0						

Scale 1:300

03/19/12

16:59:35

Hole Name: RD11-57															
REDFORD IRON ORE PROJECT										Hole Length: 241.32					
Segment Start Depth: 217.68										Segment End Depth: 261.22					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
220		And	Andesite with light to medium grey groundmass with aphanitic plag and hb, becoming increasingly altered and siliceous downhole. From 220.71 to 221.35m, andesite is skarn altered.		3	0	0	0	0	0					
225		Mb	Marble same as described above.												
230			223.39, 4cm inclusion with 3-4mm cubic py 3%. 226.41-227.36m, diopside skarn intrusion with relict andesite texture. 230.88-230.95m, Garnet skarn matches become present towards contact with underlying andesite. Mt 15%, py10%	25	5	10	0	0	0	0					
235		And	Porphyritic andesite with grey groundmass, mm plag phenos (30%) and aphanitic hb. Andesite is heavily altered from 230.99 to 233.22m starting off as garnet skarn with secondary diopside, grading into andesite with areas of bleaching and epidote alteration as well as plag/hb glomerocrysts becoming gradually less altered downhole. Core is highly siliceous.												
240		Dt	230.99-231.23m, Pyr 10%, py 5%, Mt 2%												
245			Skarn altered diorite with biotite phenos altered to epidote, garnet stringers/blebs and calcite veins/veinlets with epidote alteration at 60 tca. 241.32m, EOH												
250															
255															
260															

Hole Name: RD11-56															
REDFORD IRON ORE PROJECT											Hole Length: 194.21				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5															
10															
15															
20		OB													
25		BC And	<p>Porphyritic andesite with light grey/beige groundmass, dessicated plag (30%) and hb (25%) phenos. Core is siliceous and broken throughout units with iron staining along fracture planes.</p>												
30		BC Bs	<p>Basalt with biotite alteration of groundmass and epidote alteration of calcite veins/veinlets at random orientation. Core is siliceous with py 2% disseminated throughout. Core is broken and blocky throughout entire unit with areas of rubble.</p> <p>34.0-35.77m, siliceous andesite dyke with light grey groundmass and dessicated plag/hb.  51.83-53.05m, fault with gouge, wash/core loss throughout.  61-79.54m, increase in groundmass alteration, with skarn alteration from 69.56m to 72.38m and from 76.53 to 77.20m.  Silicified calcite phenos? become halos around altered calcite veins.</p>	2	0	0	0	0	0						
35															
40															
Scale 1:300			03/19/12					16:59:22							

Hole Name: RD11-56														
REDFORD IRON ORE PROJECT										Hole Length: 194.21				
Segment Start Depth: 43.54										Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45														
	BC													
50														
	FLTG													
55														
		Bs	Basalt with biotite alteration of groundmass and epidote alteration of calcite veins/veinlets at random orientation. Core is siliceous with py 2% disseminated throughout. Core is broken and blocky throughout entire unit with areas of rubble.											
60														
			34.0-35.77m, siliceous andesite dyke with light grey groundmass and dessicated plag/hb.	2	0	0	0	0	0	0				
			51.83-53.05m, fault with gouge, wash/core loss throughout.											
65														
			61-79.54m, increase in groundmass alteration, with skarn alteration from 69.56m to 72.38m and from 76.53 to 77.20m. Silicified calcite phenos? become halos around altered calcite veins.											
70														
75														
80														
		And	Andesite with light grey groundmass, dessicated plag (40%) and hb (15%) phenos. Py (2%) is disseminated along fracture planes and as rare cubes throughout core. Core is siliceous.	2	0	0	0	0	0	0				
85														

Scale 1:300

03/19/12

16:59:22

Hole Name: RD11-56																
REDFORD IRON ORE PROJECT											Hole Length: 194.21					
Segment Start Depth: 87.07											Segment End Depth: 130.61					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
90	BC	Sk	Andesite with light grey groundmass, dessicated plag (40%) and hb (15%) phenos. Py (2%) is disseminated along fracture planes and as rare cubes throughout core. Core is siliceous.		2	0	0	0	0	0						
95		Sk	Bleached diopside skarn with secondary rhodochrosite and pyroxene. Silicified calcite stringers throughout. Core is highly siliceous and broken throughout with areas of rubble.													
100	BC	And	Highly altered andesite with groundmass that alternates from black/grey to light grey with areas of bleaching. Plag and hb glomerocrysts 2-4mm throughout. Calcite veinlets with epidote alteration and halos at 80-90tca. Cubic py (2%) disseminated throughout. Core is slightly siliceous. 98.41-101.52m, broken core.	2	0	0	0	0	0	0						
105		Sk	Bleached diopside skarn, same as described above with an increase in rhodochrosite from 111.89m to 115.17m.													
110		Sk	109.66m, 5cm band of possible argillitic intrusion. 109.85m, 5cm of massive pyr 25% concentrated along calcite bleb. 109.92m, 5cm band of poss. argillitic intrusion 110.68-115.17m, Marcasite (15%) along fracture planes, py 5%, rare pyr 5% throughout expect between 111.23-111.69m where pyr 15%, py 10% and Mt 5% and 112.31-112.65m, pyr 20%, py 10%. 115.07-115.17m, fault with gouge. 115.17-115.87m, skarn becomes garnet dominated with secondary diopside and minor epidote.	5	0	25	0	0	0	0						
115	FLTG	Bs														
120		Sk	Altered basalt with alteration of groundmass and bleaching, calcite veins/veinlets with epidote alteration.	0	0	0	0	1	0	0						
125		And	Garnet skarn with secondary diopside and minor epidote, calcite stringers throughout at random, as well as along fracture planes. Rare apy throughout. 122.4-122.8m, unit ends with marble intrusion.													
130		And	Andesite with light grey groundmass, dessicated plag (35%) and aphanitic hb phenos. Py (2%) disseminated throughout core and along fracture planes as well as blebs.	2	0	0	0	0	0	0						

Scale 1:300

03/19/12

16:59:22

Hole Name: RD11-56														
REDFORD IRON ORE PROJECT							Hole Length: 194.21							
Segment Start Depth: 130.61							Segment End Depth: 174.14							
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
		And	Andesite with light grey groundmass, dessicated plag (35%) and aphanitic hb phenos. Py (2%) disseminated throughout core and along fracture planes as well as blebs.		2	0	0	0	0	0				
135		Mb	Medium to fine grained light grey marble with areas of diopside? alteration throughout as well as green talc.	30										
		And	135.71-136m, Mt bands mixed with marble 30%. Andesite, same as described above with alteration of groundmass and skarn alteration throughout. Py disseminated along fracture planes 2%. Core is siliceous.		2	0	0	0	0	0				
140		Mb	Marble same as described above. Andesite with light grey groundmass, dessicated plag and aphanitic hb, groundmass is altered in some areas to muddy brown with calcite/chlorite? mixture along fracture planes. Rare disseminated py and broken core throughout.											
145		And	Bleached diopside skarn with secondary rhodochrosite and silicified calcite, becoming garnet (90%)dominated with minor diopside from 152.03-153.18m Massive magnetite with minor diopside alteration.											
150	BC	And	153.66-154.10m, diopside alteration increases, Mt 60%, py 10%.		1	0	0	0	0	0				
		Sk	154.10-155m, Mt 75%, hem 15%, py 10% 155-156.61m, Mt 80%, py 5%, pyr 5%, small fault from 156.05-156.31m											
155	FLTG	Mt	Fine grained, light grey/white marble with areas of alteration. Core is slightly siliceous and contains inclusions of andesite from 158.97 to 159.70m and from 160.44-160.57m, core is very vuggy and pitted around inclusions with iron staining.	60 75 80	10 10 5	0 0 5	0 0 0	0 0 0	0 0 0	0 15 0	15451 15452 15453	153 154 155	154 155 156	18.6 76.2 81
		Mb	Andesite same as described above with increase groundmass alteration downhole and calcite alteration halos, core is siliceous.											
160		And	164.25-166.35m, broken core Impure magnetite mixed with diopside and chloritic? alteration.											
165	BC	And	166.35-167.39m, Mt 70%, py 10% 167.39-169.13m, altered andesite dyke with alteration of groundmass to dark grey/black and aphanitic hb, dessicated plag.											
		Mt	169.13-170m, Mt 80%, pyr 10%, poss moly 2% 170-171.71m, alteration increases Mt 70%. 171.71-174.0m, Mt 90%	70 70 80	10 0 0	0 0 10	0 0 0	0 0 0	0 0 2	0 0 0	15456 15457 15458 15459	166 167 168 169	167 168 169 170	51.2 41.6 0.9 61
170		Mt	Highly altered siliceous andesite, groundmass is altered to muddy brown/black to green in some areas and bleached in others, epidote and possible diopside alteration throughout with 2-3 mm plag phenos and mm hb phenos. Core is rubbly throughout unit due to driller error which makes features hard to distinguish.	70 70 90										
		And												
	BC	And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												
		And												
		Mt												

Hole Name: RD11-56															
REDFORD IRON ORE PROJECT											Hole Length: 194.21				
Segment Start Depth: 174.14											Segment End Depth: 217.68				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
	BC	And	Highly altered siliceous andesite, groundmass is altered to muddy brown/black to green in some areas and bleached in others, epidote and possible diopside alteration throughout with 2-3 mm plag phenos and mm hb phenos. Core is rubbly throughout unit due to driller error which makes features hard to distinguish.												
-180															
-185		Sk	Siliceous garnet skarn with secondary diopside, minor epidote and pyroxene. Silicified calcite veins/veinlets at random throughout. Rare py blebs 2%.	2	0	0	0	0	0	0					
-190	FLTG		188.41-189.28m, fault with gouge.												
	BC		189.28-194.21m broken core.												
			194.21m EOH												
-195															
-200															
-205															
-210															
-215															
Scale 1:300			03/19/12					16:59:22							



Hole Name: RD11-55															
REDFORD IRON ORE PROJECT										Hole Length: 84.45					
Segment Start Depth: 0.00										Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5															
10															
15															
20															
25		OB	<p>Porphyritic andesite with light grey groundmass, dessicated plag (35%) and aphanitic hb (5%), dendritic hb?? along fracture planes. Core is siliceous with rare calcite stringers, and iron staining at fracture planes from 24.39 to 26m. Groundmass becomes a darker grey downhole.</p>												
30	BC	And	<p>26.52-29.45m, intursion of altered basalt with biotite and epidote alteration of groundmass and epidote alteration of calcite veining. Rare py throughout.</p> <p>Broken core throughout unit.</p>	1	0	0	0	0	0	0					
35															
40		Bs	<p>Altered basalt with biotite and epidote? alteration of groundmass, calcite veining at random contains epidote alteration. Rare py throughout 2%. Core is siliceous.</p>	2	0	0	0	0	0	0					

Scale 1:300

03/19/12

16:59:09

Hole Name: RD11-55														
REDFORD IRON ORE PROJECT										Hole Length: 84.45				
Segment Start Depth: 43.54										Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45		Bs	Altered basalt with biotite and epidote? alteration of groundmass, calcite veining at random contains epidote alteration. Rare py throughout 2%. Core is siliceous.		2	0	0	0	0	0				
50														
55														
60	BC													
65		And	Porphyritic andesite with light to dark grey groundmass, dessicated plag (35%) and 2-3mm hb lathes (20%), calcite is present along fracture planes. Disseminated py 2% and apy 5% throughout. Core is siliceous and iron staining throughout. Core is broken and blocky throughout entire unit.  48.92m, py veinlet 35 tca. 46.30-53.10m, iron staining increases along fracture planes. 75.70-78.79m, fault with pulervized/rubby core and some gouge.		2	0	0	5	0	0				
70														
75														
80	FLTG													
85														
Scale 1:300			03/19/12					16:59:09						

Hole Name: RD11-53																
REDFORD IRON ORE PROJECT											Hole Length: 264.57					
Segment Start Depth: 0.00											Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
5		OB														
10																
15																
20		BC Bs	Altered basalt with biotite alteration of groundmass in some areas, calcite veins/veinlets at random with epidote alteration. Some inclusions/veins of tonalite throughout. Some areas of core have been skarn altered with increased epidote. Core is highly siliceous with broken core throughout and iron staining. 28.96-32.01m, rare marcasite bleb 3%.													
25																
30			Altered diorite with propylitic alteration, epidote and fluorite throughout and iron staining. Altered basalt and andesite intrusions throughout, core is highly siliceous. Unit is faulted with broken/rubby core and some gouge. Py throughout 2%.													
35	FLT	Dt	Tonalite in faulted with overlying diorite. Core contains rare ankerite and poss diopside alteration. Core is blocky/broken throughout with iron staining along fracture planes. Tonalite becomes altered downhole towards graded contact with underlying andesite, minor epidote becomes present in the core.	2	0	0	0	0	0	0						
40		BC Tn														

Scale 1:300

03/19/12

16:58:26

Hole Name: RD11-53																
REDFORD IRON ORE PROJECT											Hole Length: 264.57					
Segment Start Depth: 43.54											Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
45	BC-	In	<p>Tonalite in faulted with overlying diorite. Core contains rare ankerite and poss diopside alteration. Core is blocky/broken throughout with iron staining along fracture planes. Tonalite becomes altered downhole towards graded contact with underlying andesite, minor epidote becomes present in the core.</p>		1	0	1	0	0	0						
50		And														
55	FLT-		<p>Highly altered andesite dyke with groundmass ranging from grey to black to muddy brown. Plag and hb glomerocrysts throughout. Calcite viens/veinlets at random contain epidote alteration halos. Core is highly siliceous, rare py and cpy disseminated throughout.</p>													
60																
65			<p>Diopside skarn, with secondary rhodochrosite, silicified calcite stringers with epidote alteration and some quartz veining at random. Core starts off bleached and becomes gradually less so downhole and is highly siliceous.</p>													
70		Sk	<p>54.14-55.75m, altered andesite dyke, same as described in previous unit.  55.75-62.70m, skarn contains patches of alteration to pyroxene? With iron staining throughout core, small fault from 55.75-56.65m  62.38-62.60m basalt intrusion.  66.34-67.03m, altered andesite dyke with muddy grey groundmass, aphanitic plag/hb phenos and mm calcite phenos.  69.19-70.17m, altered andsite dyke, same as above with bleaching.  71.27-71.94m, apy 3% in skarn.  79.34-79.7m fault.  86.75-93.29m, skarn becomes garnet dominated (80%) with minor epidote and pyroxene.  92.84-93.29m, fault with gouge.  79.70-81.71m, rare marcasite along fracture planes.</p>		0	0	0	3	0	0						
75																
80	FLT-															
85																

Scale 1:300

03/19/12

16:58:26

Hole Name: RD11-53														
REDFORD IRON ORE PROJECT										Hole Length: 264.57				
Segment Start Depth: 87.07										Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
90		Sk	Diopside skarn, with secondary rhodochrosite, silicified calcite stringers with epidote alteration and some quartz veining at random. Core starts off bleached and becomes gradually less so downhole and is highly siliceous.											
95	FLTG-6		54.14-55.75m, altered andesite dyke, same as described in previous unit. 55.75-62.70m, skarn contains patches of alteration to pyroxene? With iron staining throughout core, small fault from 55.75-56.65m 62.38-62.60m basalt intrusion.											
100			66.34-67.03m, altered andesite dyke with muddy grey groundmass, aphanitic plag/hb phenos and mm calcite phenos. 69.19-70.17m, altered andsite dyke, same as above with bleaching. 71.27-71.94m, apy 3% in skarn. 79.34-79.7m fault. 86.75-93.29m, skarn becomes garnet dominated (80%) with minor epidote and pyroxene. 92.84-93.29m, fault with gouge. 79.70-81.71m, rare marcasite along fracture planes.	5	0	0	2	0	0					
105														
110		Mb												
115			Light grey, fine to medium grained marble with areas of green talc and silicified black chlorite flow banding throughout. Core is slightly siliceous.											
120			95.68-96m, core is vuggy with rhodochrosite alteration? And talc? 98.36-99.90m, andesite dyke with fine grained groundmass, aphanitic plag/hb, py 5% as blebs and apy 2% throughout. 101.24, 4cm fracture filled with gouge. 101.58-102.49m, marble is brecciated with black silicified chlorite infilling.											
125			126.04-126.31m, vuggy with core broken into thin discs. 131.94-135.15m, basalt intrusion with marcasite blebs 3%. 139.63-141.32m, faulted garnet skarn?? intursion and marble. Core is pulverized/gouge making features hard to distinguish.											
130														
Scale 1:300			03/19/12					16:58:26						

Hole Name: RD11-53															
REDFORD IRON ORE PROJECT										Hole Length: 264.57					
Segment Start Depth: 130.61										Segment End Depth: 174.14					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
135		Mb	Light grey, fine to medium grained marble with areas of green talc and silicified black chlorite flow banding throughout. Core is slightly siliceous.												
140	FLTG		95.68-96m, core is vuggy with rhodochrosite alteration? And talc? 98.36-99.90m, andesite dyke with fine grained groundmass, aphanitic plag/hb, py 5% as blebs and apy 2% throughout. 101.24, 4cm fracture filled with gouge. 101.58-102.49m, marble is brecciated with black silicified chlorite infilling. 126.04-126.31m, vuggy with core broken into thin discs. 131.94-135.15m, basalt intrusion with marcasite blebs 3%. 139.63-141.32m, faulted garnet skarn?? intrusion and marble. Core is pulverized/gouge making features hard to distinguish.												
145															
150															
155		Mt	Impure magnetite mixed with garnet skarn, with areas that are massive.  159.61-160.55m, Mt 35%, garnet 60%, epidote 5%. 160.55-162.0m, Mt 85%, with diopside and black chlorite? or pyroxene. 160-162.70m, Mt 40% mixed with black chlorite/pyroxene, fault from 162.4-162.7m, with core loss.												
160			Andesite with light grey groundmass and dessicated plag/hb phenos. Groundmass starts to become altered downhole to muddy brown/black. Core is broken/rubby throughout unit with rare py.								15415	159	160	6.9	
											15416	160	161	37.9	
											15417	161	162	61.6	
											15418	162	163	1.5	
165		And	Impure Magnetite mottled with diopside and chlorite? alteration.												
170	FLTG	Mt	168.13-171.0m, Mt 75% 169.82-170.05m, fault 171.0-172.09m, Mt 50% mixed with black chlorite?/pyroxene. 172.09-174.39m, Mt 65% 172.17-172.56m, fault 173.56-174.47m, fault with gouge that extends into underlying skarn unit.	75							15419	168	169	33.1	
												15420	169	170	42.6
												15421	170	171	47.8
	FLTG				50							15422	171	172	13.5
	FLTG				65							15423	172	173	17.9
											15424	173	174	53.4	
											15425	174	175	6.8	

Scale 1:300

03/19/12

16:58:26

Hole Name: RD11-53														
REDFORD IRON ORE PROJECT										Hole Length: 264.57				
Segment Start Depth: 174.14										Segment End Depth: 217.68				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
	FLTG	Mt	Impure Magnetite mottled with diopside and chlorite? alteration.	65							15425	174	175	5.9
				20							15427	175	176	1.6
											15428	176	177	4.1
											15429	177	178	3
											15430	178	179	15
180			168.13-171.0m, Mt 75% 169.82-170.05m, fault 171.0-172.09m, Mt 50% mixed with black chlorite?/pyroxene. 172.09-174.39m, Mt 65% 172.17-172.56m, fault 173.56-174.47m, fault with gouge that extends into underlying skarn unit.	50							15431	179	180	27.3
				30							15432	180	181	18.7
											15433	181	182	8.7
											15434	182	183	4
185		Sk	Garnet (85%) with minor diopside and epidote alteration of calcite veins/veinlets at random. Magnetite is mixed with skarn until the 182.40m mark. Core becomes siliceous downhole.											
190			174.39-178.66m, Mt 20% in skarn 178.66-181.20m, Mt 50% in skarn, 181.20-182.4m, Mt 30% 192.21-192.99m, fault 194.80-197.63m, fault with gouge, core loss throughout. 200.4-200.61m, fault, faulted contact with underlying andesite.											
195	FLT													
	FLTG		Altered andesite with alteration of groundmass to muddy brown color with dessicated plag and aphanitic hb. Core becomes bleached and highly siliceous downhole. Broken core from 200.61-202.6m											
200	FLT				2	0	0	0	0	0				
	BC	And	200.61-201.05m, skarn altered with 2% py											
205			Garnet skarn with secondary diopside with rare calcite veins and stringers. Py 2 cubic and disseminated throughout. Core is slightly siliceous.											
			207.10-209.86m, bleached diopside? skarn with calcite throughout, py is fine and disseminated 5%. Faulted from 208.84-210.10m with rubbly/pulverized core and gouge, core loss. 211.55m, calcite vein 40tca.	5	0	0	0	0	0	0				
210	FLTG	Sk												
			Andesite with light grey fine grained groundmass and dessicated plag (30%) and hb (5%) phenos. Fine, disseminated py (2%) throughout and rare calcite stringer. Some fracture planes have iron stained halos around them.	2	0	0	0	0	0	0				
215		And			2	0	0	0	0	0				

Scale 1:300

03/19/12

16:58:26

Hole Name: RD11-53															
REDFORD IRON ORE PROJECT										Hole Length: 264.57					
Segment Start Depth: 217.68										Segment End Depth: 261.22					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
220		And	Andesite with light grey fine grained groundmass and desiccated plag (30%) and hb (5%) phenos. Fine, disseminated py (2%) throughout and rare calcite stringer. Some fracture planes have iron stained halos around them.		2	0	0	0	0	0					
225					2	0	0	0	0	0					
230	FLT-G		Garnet skarn with secondary diopside, minor rhodochrosite and epidote, py blebs throughout 2%. Minor purple fluorite becomes present downhole.												
235		Sk	225.53-228.05m, Siliceous diopside skarn with minor rhodochrosite and garnet. 228.9-229.27m, fault with slickensides 230.3-230.90m, skarn altered diorite? intrusions 237.64-250.55m, Diopside skarn with secondary black pyroxene and minor rhodochrosite. Core is highly siliceous with areas of bleaching throughout. Silicified calcite veins throughout at 90 tca. 250.0-250.55m, fault		2	0	0	0	0	0					
240															
245			Highly siliceous, skarn altered basalt with patches of bleached diopside skarn and quartz throughout. Silicified calcite veins/veinlets have minor epidote alteration with black pyroxene? or hb? mottled throughout.												
250	FLT-G		237.82-259.60m, basalt has been altered to a bleached diopside skarn mottled with quartz, minor epidote and small patches of relict basalt.												
255		Bs	Highly siliceous, skarn altered tonalite with abundant epidote and pyroxene? alteration throughout, minor diopside. Broken/rubby core throughout												
260	FLTG BC	Tn	259.59-259.69m, fault with gouge.												

Scale 1:300

03/19/12

16:58:26



Hole Name: RD11-53															
REDFORD IRON ORE PROJECT											Hole Length: 264.57				
Segment Start Depth: 261.22											Segment End Depth: 304.75				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
	BC	Tn													
265	BC	And	Highly siliceous, skarn altered tonalite with abundant epidote and pyroxene? alteration throughout, minor diopside. Broken/rubbly core throughout  259.59-259.69m, fault with gouge.		3	0	0	0	0	0					
270			Skarn altered andesite dyke with epidote and diopside alteration throughout with some areas completely altered to skarn, py 3% as blebs. Core is highly siliceous and broken throughout.												
275			264.57m, EOH												
280															
285															
290															
295															
300															
Scale 1:300			03/19/12						16:58:26						

Hole Name: RD11-52																
REDFORD IRON ORE PROJECT										Hole Length: 292.07						
Segment Start Depth: 0.00										Segment End Depth: 43.54						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
5		OB														
10			Altered basalt with slight alteration of groundmass and epidote alteration of calcite veins at random orientation. From 15.24 to 16.17m is altered andesite dyke. Rare py blebs throughout.													
15			19.20-21.90m unit ends in altered andesite dyke with grey to muddy brown groundmass, aphanitic hb and mm plag phenos.													
20		Bs		1	0	0	0	0	0	0						
25		Dt	Altered diorite with plag (60%), biotite (20%), qtz (20%), epidote veining and alteration halos throughout, biotite alteration of groundmass. Core is highly siliceous, py blebs throughout 5%.	5	0	0	0	0	0	0						
30		Bs	Altered basalt with biotite alteration of groundmass and epidote alteration of calcite veining/veinlets throughout. Veinlets are at 60 tca. Py along fracture planes 5%. Core is highly siliceous with increased bleaching and iron staining downhole.	5	0	0	0	0	0	0						
35		Tn	27.62-28m, vuggy intrusion of marble with iron staining throughout.													
40	FLT	Bs	Tonalite dyke with rare ankerite and diopside? Phenos. Core becomes iron stained downhole and altered to skarn from 38m to end of unit.	5	0	0	0	0	0	0						
			Altered basalt, same as described above with rare bands of tonalite and py 5%. Entire unit is faulted with broken core and iron staining.													

Scale 1:300

03/19/12

16:58:12

Hole Name: RD11-52																
REDFORD IRON ORE PROJECT											Hole Length: 292.07					
Segment Start Depth: 43.54											Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
45	FLT	Bs	Altered basalt, same as described above with rare bands of tonalite and py 5%. Entire unit is faulted with broken core and iron staining.		5	0	0	0	0	0						
50	FLT	And	Altered porphyritic andesite with alteration of groundmass and phenos. Dessicated plag/hb phenos and calcite blebs throughout. Core is siliceous and chaotic with areas of bleaching and iron stained halos. Calcite veinlets/stringers throughout at random with epidote alteration in areas of bleaching. Rare py and apy throughout.  47.36-50.36m, fault 53.72-55.75m, fault with gouge. 56-59.16m, areas of core contain large qtz or siliceous calcite inclusions? Inclusions are restricted to bands/belbs in core where surrounding groundmass is altered to dark grey/black. 57.62m, 10cm intrusion of basalt.		1	0	0	1	0	0						
55	FLTG															
60																
65		Sk	Chaotic skarn unit alternating from diopside dominated to rhodochrosite dominated. Unit starts with diopside skarn and secondary rhodochrosite, minor epidote and calcite veining/veinlets at random throughout. Core is highly siliceous.  69.51-69.99m, vuggy core 69.99-78.56m, skarn becomes rhodochrosite (90%) dominated with bleaching downhole. From 75.86-78.56m, skarn becomes mixed with altered silicified marble? Broken core/rubbly core throughout. Rare py bleb 2%. 78.56-85.55m, skarn is diopside dominated again with areas of bleaching. 79.27-79.43m, Mt 15%, pyr 10% and py 10% mixed with skarn. 85.55-87.92m, skarn becomes garnet dominated (90%) with minor epidote and diopside.													
70																
75	BC						2	0	0	0	0	0				
80				15	10	10	0	0	0	0						
85																

Scale 1:300

03/19/12

16:58:12

Hole Name: RD11-52																
REDFORD IRON ORE PROJECT											Hole Length: 292.07					
Segment Start Depth: 87.07											Segment End Depth: 130.61					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
90	FLT	Sk	<p>Choatic skarn unit alternating from diopside dominated to rhodochrosite dominated. Unit starts with diopside skarn and secondary rhodochrosite, minor epidote and calcite veining/veinlets at random throughout. Core is highly siliceous.</p> <p>69.51-69.99m, vuggy core 69.99-78.56m, skarn becomes rhodochrosite (90%) dominated with bleaching downhole. From 75.86-78.56m, skarn becomes mixed with altered silicified marble? Broken core/rubby core throughout. Rare py bleb 2%. 78.56-85.55m, skarn is diopside dominated again with areas of bleaching. 79.27-79.43m, Mt 15%, pyr 10% and py 10% mixed with skarn. 85.55-87.92m, skarn becomes garnet dominated (90%) with minor epidote and diopside.</p>													
95		Mb	<p>Medium to coarse grained light grey marble.</p>													
100	FLTG		<p>89.70-91.45m, faulted skarn intrusion with areas of relict altered diorite. Core is rubby and pulverized which makes feature hard to distinguish. 95.85-96.48m, core becomes vuggy and broken in to "poker" chips (core broken at 90 degrees into thin discs) 99.43-99.59m argillite dyke? 101.4-104.67m fault with pulverized, vuggy core, gouge and "poker" chips. Faulted altered andesite dyke runs from 103.35-104.20m. 107.8-108.93m, fault with gouge, vuggy core and poker chips. 112.2-112.8m, vuggy core, "poker" chips. 113.94-114.93m, vuggy core, "poker" chips.</p>													
105	FLTG		<p>Altered porphyritic andesite dyke with groundmass altered to muddy brown color, aphanitic plag phenos, mm hb lathes with large calcite alteration halos. Calcite is also present along fracture planes with epidote?</p>													
110		And														
115		Mb	<p>Marble same as described above.</p>													
120			<p>126.16-129m, basalt intrusion with biotite alteration of groundmass. Calcite present along fracture planes. 161m, 6cm py 3% stringer, pyr 3% bleb 166.71-167.07m, fault with broken vuggy core. 168.83-170.73m fault with broken/rubby, vuggy core.</p>													
125																
130																

Scale 1:300

03/19/12

16:58:12

Hole Name: RD11-52														
REDFORD IRON ORE PROJECT										Hole Length: 292.07				
Segment Start Depth: 130.61										Segment End Depth: 174.14				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
135		Mb	Marble same as described above.											
140			126.16-129m, basalt intrusion with biotite alteration of groundmass. Calcite present along fracture planes.											
145			161m, 6cm py 3% stringer, pyr 3% bleb											
			166.71-167.07m, fault with broken vuggy core. 168.83-170.73m fault with broken/rubbly, vuggy core.											
150														
155														
160			Impure magnetite with diopside and calcite alteration, magnetite ranges throughout.		3	3	0	0	0	0				
165			173.07-173.93m, fault with pulvurized core and gouge, wash/core loss. Mt 40%.											
	FLT		173.93-177.13m, andesite dyke becoming altered downhole.											
	FLT		177.13-178.87m Mt 80% with calcite and diopside alteration, py 5%. Chlorite and serpentized along fracture planes.											
170			178.87-181.55m, increase in diopside alteration with some epidote/garnet. Bleaching down hole, Mt 30%.											
	FLT		178.87-179.03m, py 15% as stringers/blebs.											
	FLTG	Mt		40							15401	173	174	35.4

Scale 1:300

03/19/12

16:58:12

Hole Name: RD11-52																	
REDFORD IRON ORE PROJECT										Hole Length: 292.07							
Segment Start Depth: 174.14										Segment End Depth: 217.68							
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct			
180		Mt	Impure magnetite with diopside and calcite alteration, magnetite ranges throughout.	80	5	0	0	0	0	0	15402	177	178	48.3			
				20	15	0	0	0	0	15403	178	179	63.4				
185	BC	Sk	173.07-173.93m, fault with pulverized core and gouge, wash/core loss. Mt 40%. 173.93-177.13m, andesite dyke becoming altered downhole. 177.13-178.87m Mt 80% with calcite and diopside alteration, py 5%. Chlorite and serpentized along fracture planes. 178.87-181.55m, increase in diopside alteration with some epidote/garnet. Bleaching down hole, Mt 30%, 178.87-179.03m, py 15% as stringers/blebs.	30								15404	179	180	21.9		
													15405	180	181	16.5	
														15407	181	182	14
														15408	182	183	12.1
														15409	183	184	2.7
														15410	184	185	4.6
														15411	185	186	3.8
														15412	186	187	0.4
														15413	187	188	1.3
														15414	188	189	2
190		Tn															
195			Garnet skarn with secondary diopside and magnetite. Calcite blebs and vein/veinlets throughout at random, rare pyr 2%. Upper contact with magnetite unit is graded, basal lower contact with tonalite dyke														
200			Broken core throughout entire unit.														
205		Sk	Tonalite with rare mm sized ankerite and diopside? Phenos. Entire unit is faulted with broken/rubby core and gouge, fault extends into the next unit.														
210			Garnet skarn with secondary diopside and minor epidote, calcite stringers throughout and as blebs. Fault extending from previous unit until the 194.7m mark. From 215m downhole skarn becomes diopside dominated (70%) with minor garnet, rhodochrosite and quartz blebs. Rare epidote and purple fluorite alteration of calcite stingers. Core becomes highly siliceous.														
215																	

Scale 1:300

03/19/12

16:58:12

Hole Name: RD11-52															
REDFORD IRON ORE PROJECT											Hole Length: 292.07				
Segment Start Depth: 217.68											Segment End Depth: 261.22				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
-220		Sk	Garnet skarn with secondary diopside and minor epidote, calcite stringers throughout and as blebs. Fault extending from previous unit until the 194.7m mark. From 215m downhole skarn becomes diopside dominated (70%) with minor garnet, rhodochrosite and quartz blebs. Rare epidote and purple fluorite alteration of calcite stringers. Core becomes highly siliceous.												
-225															
-230															
-235		And	Andesite with mm hb lathes, dessicated plag and calcite blebs. Iron stained halos occur around some fracture planes. Rare Py throughout.												
-240				1	0	0	0	0	0						
-245															
-250	FLT	Sk	Diopside skarn with secondary pyroxene and minor rhodochrosite. Calcite stringers with rare epidote and fluorite alteration throughout.  248-249.17m fault with broken core. 248.93-250.9m andesite dyke. 254-256m, broken core.												
-255	BC														
-260		And	Andesite, same as described above.	1	0	0	0	0	0	0					

Scale 1:300

03/19/12

16:58:12

Hole Name: RD11-52														
REDFORD IRON ORE PROJECT										Hole Length: 292.07				
Segment Start Depth: 261.22										Segment End Depth: 304.75				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
265		And	Andesite, same as described above.		1	0	0	0	0	0				
270		Sk	Skarn is chaotic ranging between diopside skarn with secondary garnet, rhodochrosite and epidote and diopside with secondary epidote and black pyroxene. Some quartz blebs throughout as well as purple fluorite. Core is highly siliceous with rare cubic py 2%, and pyr.  271.8-271.96m, band of pyr 30%, py 5%.		2	1	0	0	0	0				
275					5	30	0	0	0	0				
280														
285		Bs	Altered basalt in graded contact with overlying skarn. Basalt has biotite alteration of groundmass with groundmass becoming more altered downhole. Calcite veinlets with alteration halos, calcite is also present along fracture planes. Diorite inclusions throughout with some areas of core being altered to diopside skarn. Core is highly siliceous.  292.07m, EOH											
290														
295														
300														
Scale 1:300			03/19/12					16:58:12						



Hole Name: RD11-51															
REDFORD IRON ORE PROJECT											Hole Length: 209.76				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		OB	<p>Light medium to coarse grained marble. First part of unit is cut by a basalt intrusion from 26.80-31.9m with the last 30cm faulted. The fault continues back into marble running from 31.5-33.6m</p> <p>33.7m, vuggy core 34-36.72m, andesite dyke with dark grey groundmass and aphanitic plag/hb phenos, dyke is faulted from 34-34.42m. 46-46.8m, vuggy core 50.29-51.53m, andesite dyke with brown/grey groundmass and dessicated plag/hb phenos. 54.04m, 5cm band of black talc or chlorite?? 54.16-54.45m, vuggy core with gouge. 55.64-59.81m, andesite dyke with small marble intrusion from 58-58.41m, andesite after intrusion is altered. Broken core throughout. 65.4-65.85m, fault 82.31-82.80m, fault with gouge. 92.40-93.2m area of propylitic alteration? Epidote throughout as well as cubic py 5% and apy 5%. 95.54-100m, area of alteration with black chlorite? Throughout. Core is also broken and rubbly due to mismatch. 104-106.1m, broken/dropped core 106.1-108.85m, marble starts to become altered to a bleached epidote skarn? with marble inclusions mixed in.</p>												
10		OB													
15		OB													
20		OB													
25		OB													
30		OB													
35	FLTG FLTG	Mb													
40		Mb													

Scale 1:300

03/19/12

16:57:59

Hole Name: RD11-51															
REDFORD IRON ORE PROJECT											Hole Length: 209.76				
Segment Start Depth: 43.54											Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45		Mb													
50															
55				Light medium to coarse grained marble. First part of unit is cut by a basalt intrusion from 26.80-31.9m with the last 30cm faulted. The fault continues back into marble running from 31.5-33.6m											
60	BC			33.7m, vuggy core 34-36.72m, andesite dyke with dark grey groundmass and aphanitic plag/hb phenos, dyke is faulted from 34-34.42m. 46-46.8m, vuggy core 50.29-51.53m, andesite dyke with brown/grey groundmass and dessicated plag/hb phenos.											
65	FLT-G			54.04m, 5cm band of black talc or chlorite?? 54.16-54.45m, vuggy core with gouge. 55.64-59.81m, andesite dyke with small marble intrusion from 58-58.41m, andesite after intrusion is altered. Broken core throughout. 65.4-65.85m, fault 82.31-82.80m, fault with gouge.											
70				92.40-93.2m area of propylitic alteration? Epidote throughout as well as cubic py 5% and apy 5%. 95.54-100m, area of alteration with black chlorite? Throughout. Core is also broken and rubbly due to mismatch. 104-106.1m, broken/dropped core 106.1-108.85m, marble starts to become altered to a bleached epidote skarn? with marble inclusions mixed in.											
75															
80															
85	FLTG-G														
Scale 1:300				03/19/12				16:57:59							

Hole Name: RD11-51															
REDFORD IRON ORE PROJECT											Hole Length: 209.76				
Segment Start Depth: 87.07											Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
90		Mb	Light medium to coarse grained marble. First part of unit is cut by a basalt intrusion from 26.80-31.9m with the last 30cm faulted. The fault continues back into marble running from 31.5-33.6m		5	0	0	5	0	0					
95	BC		33.7m, vuggy core 34-36.72m, andesite dyke with dark grey groundmass and aphanitic plag/hb phenos, dyke is faulted from 34-34.42m. 46-46.8m, vuggy core 50.29-51.53m, andesite dyke with brown/grey groundmass and dessicated plag/hb phenos. 54.04m, 5cm band of black talc or chlorite?? 54.16-54.45m, vuggy core with gouge. 55.64-59.81m, andesite dyke with small marble intrusion from 58-58.41m, andesite after intrusion is altered. Broken core throughout.												
100			65.4-65.85m, fault 82.31-82.80m, fault with gouge. 92.40-93.2m area of propylitic alteration? Epidote throughout as well as cubic py 5% and apy 5%. 95.54-100m, area of alteration with black chlorite? Throughout. Core is also broken and rubby due to mismatch.												
105	BC		104-106.1m, broken/dropped core 106.1-108.85m, marble starts to become altered to a bleached epidote skarn? with marble inclusions mixed in.												
110			And		2	0	0	0	0	0	0				
115			Mb		40							15380	114	115	21.2
			Mt		90							15381	115	116	63
												15382	116	117	76
120			And	Andesite dyke with areas of alteration and marble intrusions, groundmass varies from dark muddy brown to light grey with dessicated plag and hb phenos. Rare py (2%) throughout.											
				Marble same as above with magnetite bands (40%) from 114.36 to 115m.											
125		Massive magnetite (90%) with minor calcite and talc? alteration as well as minor graphite. First 8 cm of unit is made up of soft black chlorite or talc? With calcite veinlets at random, pyr 10% along lower contact.		2	0	0	0	0	0	0					
130			Porphyritic andesite with medium grey groundmass and dessicated plag/hb phenos. Calcite veinlets throughout at random, rare py blebs 2%.												

Scale 1:300

03/19/12

16:57:59

Hole Name: RD11-51																
REDFORD IRON ORE PROJECT										Hole Length: 209.76						
Segment Start Depth: 130.61										Segment End Depth: 174.14						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
		And	Porphyritic andesite with medium grey groundmass and dessicated plag/hb phenos. Calcite veinlets throughout at random, rare py blebs 2%.		2	0	0	0	0	0						
135		Bs	Altered basalt with biotite alteration of groundmass and calcite veining with epidote alteration throughout. Some areas have been altered to diopside skarn. First 30cm of unit is altered skarn. Entire unit has been faulted.													
140	FLTG															
145																
150			Light grey medium to fine grained marble becoming more siliceous downhole. Large fault extending from previous unit to a depth of 146.79m with broken/pulervize, vuggy core and gouge. From 157.01m to end of hole, rare garnet skarn intrusion within mable.													
155		Mb	148.25-150.91m, andesite dyke with dessicated plag and mm hb phenos. 153.9-157.75m, heavily altered andesite dyke with areas being altered to skarn. 157.8-158.05m, faulted skarn intrusion. 158.58-158.81m, faulted skarn intrusion. 164.16-167.4m, altered andesite dyke with grey/green groundmass, 1-2mm plag phenos (20%), aphantic hb and rare calcite phenos. Py blebs 15% throughout. 173.43-173.83m, rare py 2% and apy 2% in skarn intrusion. 194.89-195.5m, heavily altered andesite dyke? Andesite is being altered to skarn with relict andesite texture, py 5%.													
160	FLTG FLTG															
165			209.76m, EOH		15	0	0	0	0	0						
170					2	0	0	2	0	0						

Scale 1:300

03/19/12

16:57:59

Hole Name: RD11-51																
REDFORD IRON ORE PROJECT											Hole Length: 209.76					
Segment Start Depth: 174.14											Segment End Depth: 217.68					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
-180		Mb	<p>Light grey medium to fine grained marble becoming more siliceous downhole. Large fault extending from previous unit to a depth of 146.79m with broken/pulverize, vuggy core and gouge. From 157.01m to end of hole, rare garnet skarn intrusion within marble.</p> <p>148.25-150.91m, andesite dyke with desiccated plag and mm hb phenos.</p> <p>153.9-157.75m, heavily altered andesite dyke with areas being altered to skarn.</p> <p>157.8-158.05m, faulted skarn intrusion.</p> <p>158.58-158.81m, faulted skarn intrusion.</p> <p>164.16-167.4m, altered andesite dyke with grey/green groundmass, 1-2mm plag phenos (20%), aphanitic hb and rare calcite phenos. Py blebs 15% throughout.</p> <p>173.43-173.83m, rare py 2% and apy 2% in skarn intrusion.</p> <p>194.89-195.5m, heavily altered andesite dyke? Andesite is being altered to skarn with relict andesite texture, py 5%.</p> <p>209.76m, EOH</p>													
-185																
-190																
-195							5	0	0	0	0	0				
-200																
-205																
-210																
-215																
Scale 1:300				03/19/12				16:57:59								

Hole Name: RD11-50															
REDFORD IRON ORE PROJECT										Hole Length: 246.58					
Segment Start Depth: 0.00										Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5			<p>Massive magnetite (85%) with some skarn and marble mixed throughout as well as diopside alteration, py 25%.</p> <p>27.30-28.65m, skarn increases and Mt drops to (40%).</p> <p>Entire unit is faulted with fault extending into next unit.</p>												
10		OB	<p>Chaotic zone of alteration to skarn? Core is siliceous and bleached with areas of relict diorite being altered to epidote and garnet skarn, possible hedenbergite also present. Entire unit is faulted and rubbly, some Mt mixed within rubble (15%).</p>												
15			<p>Light grey, fine to medium grained marble with calcite present along fracture planes.</p>												
20			<p>37.0-44.22m, vuggy core.</p>												
25		Mt	<p>48.09-48.96m, Intrusion of altered basalt with some garnet-diopside skarn mixed in. Contacts with marble are faulted.</p>	85	25	0	0	0	0	0	15351	24.39	26	66.6	
			<p>55.96-56.25m, faulted altered andesite dyke.</p>								15352	26	27	84	
			<p>56.87-57.14m, Garnet skarn intrusion.</p>	40							15353	27	28	37.4	
			<p>57.62-58.38m, highly altered andesite dyke, highly siliceous light grey groundmass with aphantic plag/hb phenos, py 5% as blebs.</p>								15354	28	29	30	
			<p>61.23-62.35m, faulted garnet-diopside skarn intrusion.</p>	85							15355	29	30	88.8	
			<p>63.49-63.78m, area of alteration, possible bleached skarn? Very siliceous.</p>								15357	30	31	77	
			<p>65-69.38m, vuggy core.</p>	15							15358	31	32	66.6	
			<p>69.82-70.31m, altered andesite dyke same as above.</p>								15359	32	33	82	
30	FLTG		<p>72-73.73m, marble becomes mixed with garnet skarn as well as diopside-pyroxene skarn throughout, green talc? is present along fracture planes. Mt (20%) is present from 72.40-72.62m. Graded contact with underlying Mt unit.</p>								15360	33	34	60	
35		Sk													
40		Mb													

Scale 1:300

03/19/12

16:57:42

Hole Name: RD11-50															
REDFORD IRON ORE PROJECT										Hole Length: 246.58					
Segment Start Depth: 43.54										Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45		Mb	Light grey, fine to medium grained marble with calcite present along fracture planes.												
50			37.0-44.22m, vuggy core. 48.09-48.96m, Intrusion of altered basalt with some garnet-diopside skarn mixed in. Contacts with marble are faulted.												
55	FLT-d		55.96-56.25m, faulted altered andesite dyke. 56.87-57.14m, Garnet skarn intrusion. 57.62-58.38m, highly altered andesite dyke, highly siliceous light grey groundmass with aphanitic plag/hb phenos, py 5% as blebs.												
60	FLTG		61.23-62.35m, faulted garnet-diopside skarn intrusion. 63.49-63.78m, area of alteration, possible bleached skarn? Very siliceous. 65-69.38m, vuggy core. 69.82-70.31m, altered andesite dyke same as above. 72-73.73m, marble becomes mixed with garnet skarn as well as diopside-pyroxene skarn throughout, green talc? is present along fracture planes. Mt (20%) is present from 72.40-72.62m. Graded contact with underlying Mt unit.		5	0	0	0	0	0					
65			Massive magnetite (90%) with some diopside alteration and small (1-2cm) inclusions of marble. Some calcite stringers throughout.												
70			75.08-75.5m, intrusion of green talc? Soft, dark green with soapy like texture. Intrusion is rubbly, possible driller error.												
75			Diopside skarn with secondary magnetite and garnet. Minor epidote and calcite stringers throughout.	20											
80			81.86-82.15m, py 25%.	90								15361	73	74	13.1
85			Garnet skarn with secondary diopside and minor epidote, rhodochrosite and quartz? Calcite veinlets at random, areas of core are highly siliceous increasing downhole.									15362	74	75	80.8
			93.5m, Calcite vein, 40tca 93.71m, 2cm calcite vein, 40 tca. 99-99.56m, faulted, chaotic intrusion, possible altered andesite dyke or skarn?? with blebs of calcite, garnet and epidote in dark green groundmass. 1-2mm cubic py 25%.	40	25	0	0	0	0	0		15363	75	76	59.8
		Faulted contact with underlying magnetite 50 tca.	40								15364	76	77	85.2	
											15365	77	78	95.2	
											15366	78	79	87	
											15367	79	80	85.4	
											15368	80	81	90	
											15369	81	82	68.4	
											15370	82	83	34.2	
											15371	83	84	5.9	
											15372	84	85	38.2	
											15373	85	86	9.8	
											15374	86	87	35.4	
											15375	87	88	0.0	

Scale 1:300

03/19/12

16:57:42

Hole Name: RD11-50														
REDFORD IRON ORE PROJECT										Hole Length: 246.58				
Segment Start Depth: 87.07										Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
90		Sk	Garnet skarn with secondary diopside and minor epidote, rhodochrosite and quartz? Calcite veinlets at random, areas of core are highly siliceous increasing downhole.								15375	87	88	0.9
95		Sk	93.5m, Calcite vein, 40tca 93.71m, 2cm calcite vein, 40 tca. 99-99.56m, faulted, chaotic intrusion, possible altered andesite dyke or skarn?? with blebs of calcite, garnet and epidote in dark green groundmass. 1-2mm cubic py 25%.											
100	FLTG	Mt	Faulted contact with underlying magnetite 50 tca.	90	25	0	0	0	0	0	15377	99	100	26.9
				40	2	0	0	0	0	0	15378	100	101	48.7
				40	5	0	0	0	0	0	15379	101	102.5	15.1
105			Massive magnetite (90%) with minor diopside/epidote alteration. Rare py bleb 2% 100.78-100.91m, intrusion of hard black massive pyroxene or possible serpentine?? With rare calcite stingers.		5	0	0	0	0	0				
110		Sk	Garnet-diopside skarn, same as described above. Core is highly siliceous.											
115		Sk	101.73-102.1m, Mt (40%) present as bands and blebs, py 5% 103.62-103.90m, py 5%, as blebs and cubes. 125.87m, uneven contact with underlying andesite. Py 5%, disseminated along edges of contact.											
120			Porphyritic andesite, grey groundmass with dessicated plag phenos, hb phenos 1-3mm lathes and calcite blebs throughout. Rare calcite veinlets, 20tca. Rare py bleb.											
125		And	131.23-132.05m, garnet-diopside skarn intrusion 132-139.4m, broken core 139.4-140.05m, andesite becomes altered and faulted with gouge. Faulted contact with underlying marble.		1	0	0	0	0	0				
130														

Scale 1:300

03/19/12

16:57:42



Hole Name: RD11-50															
REDFORD IRON ORE PROJECT											Hole Length: 246.58				
Segment Start Depth: 130.61											Segment End Depth: 174.14				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
135	BC	And	<p>Porphyritic andesite, grey groundmass with dessicated plag phenos, hb phenos 1-3mm lathes and calcite blebs throughout. Rare calcite veinlets, 20tca. Rare py bleb.</p> <p>131.23-132.05m, garnet-diopside skarn intrusion  132-139.4m, broken core  139.4-140.05m, andesite becomes altered and faulted with gouge. Faulted contact with underlying marble.</p>		1	0	0	0	0	0					
140	FLTG														
145															
150															
155		Mb	<p>Medium to coarse grained light grey marble wth garnet skarn intrusions the first 14m's of unit.</p> <p>153.06m, disseminated py (2%) along calcite vein in skarn intrusion.  154.95-159.41m, altered basalt intrusion with biotite alteration of groundmass and calcite veining being altered to epidote. Some areas of core also contain alteration to garnet skarn. Py (3%) disseminated throughout.  179.11-179.47m, andesite dyke, rare py.  179.70-182.82m, andesite dyke, rare py 2%.  182.82-186.36m, marble becomes siliceous.</p>		3	0	0	0	0	0					
160															
165															
170															
Scale 1:300			03/19/12					16:57:42							

Hole Name: RD11-50															
REDFORD IRON ORE PROJECT											Hole Length: 246.58				
Segment Start Depth: 174.14											Segment End Depth: 217.68				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
180		Mb	<p>Medium to coarse grained light grey marble wth garnet skarn intrusions the first 14m's of unit.</p> <p>153.06m, disseminated py (2%) along calcite vein in skarn intrusion.</p> <p>154.95-159.41m, altered basalt intrusion with biotite alteration of groundmass and calcite veining being altered to epidote. Some areas of core also contain alteration to garnet skarn. Py (3%) disseminated throughout.</p> <p>179.11-179.47m, andesite dyke, rare py.</p> <p>179.70-182.82m, andesite dyke, rare py 2%.</p> <p>182.82-186.36m, marble becomes siliceous.</p>		1	0	0	0	0	0					
185					2	0	0	0	0	0					
190		And	<p>Porphyritic andesite with mm plag phenos (30%) and aphanitic hb phenos in fine grained light grey groundmass becoming darker grey downhole. Core is highly siliceous with fine disseminated py (2% ) throughout, increasing to 5 % at upper contact.</p>		2	0	0	0	0	0					
195															
200			<p>190.93-191.21m, intrusion of marble.</p> <p>191.21-196.88m, Following the marble intrusion, the andesite becomes highly altered with dark grey/black to green groundmass, large (2-4mm) plag phenos (30%) and calcite veining with epidote alteration and halos. Areas of core have been altered to garnet-diopside skarn, with 194.82 to end of unit being dominated by skarn.</p>		5	0	0	0	0	0					
205															
210		Mb	<p>Marble same as described above with rare garnet skarn intrusions. Core becomes increasingly siliceous downhole.</p> <p>198.73-199.15m, altered andesite dyke, disseminated py 5%.</p> <p>201.90-202.7m, andesite dyke.</p> <p>206.4-206.92m, area of alteration, possible green talc and other altered clay material with calcite veinlets at random.</p> <p>209.46-209.60m, area of alteration, py 25%, hem 10%.</p> <p>209.85-211.6m, garnet-epidote intrusion.</p>		25	0	0	0	0	10					
215			<p>Unit ends with 10cms of skarn in uneven contact with underlying andesite.</p>												

Scale 1:300

03/19/12

16:57:42

Hole Name: RD11-50														
REDFORD IRON ORE PROJECT										Hole Length: 246.58				
Segment Start Depth: 217.68										Segment End Depth: 261.22				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
220		And	Marble same as described above with rare garnet skarn intrusions. Core becomes increasingly siliceous downhole.											
225		And	198.73-199.15m, altered andesite dyke, disseminated py 5%. 201.90-202.7m, andesite dyke. 206.4-206.92m, area of alteration, possible green talc and other altered clay material with calcite veinlets at random. 209.46-209.60m, area of alteration, py 25%, hem 10%. 209.85-211.6m, garnet-epidote intrusion.	2	0	0	0	0	0	0				
230		And	Unit ends with 10cms of skarn in uneven contact with underlying andesite.											
235		And												
240		And	Porphyritic andesite with 2-4mm dessicated plag phenos (20%) and aphanitic hb, py 2% as blebs. Rare calcite veinlets, core is siliceous.	5	0	0	0	0	0	0				
245		And	232.71m to end of unit, andsite becomes altered with 2-4mm plag phenos and calcite veining (60tca)/veinlets (random) with epidote alteration and halos. In some areas, plag phenos are also forming halos around veins/veinlets. Groundmass alternates between dark-medium grey to black, some areas of core have altered to skarn. Chlorite/calcite mixture along fracture planes, py 5%.											
250		And	246.58m, EOH											
255		And												
260		And												
Scale 1:300			03/19/12					16:57:42						

Hole Name: RD11-49															
REDFORD IRON ORE PROJECT											Hole Length: 152.13				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5			Medium grained light grey marble. 25.43-27m, faulted altered andesite dyke. 27.13-27.65m, Mt 15% becomes mixed with marble grading into underlying magnetite unit at 27.65m.												
10		OB	Massive magnetite (85%) with minor diopside/epidote alteration and graphite. 29-29.65m, fault with gouge 29.65-30.06m, altered andesite dyke with fine grained dark green/grey groundmass and aphanitic plag/hb phenos. Contacts with dyke are faulted. 31.65-32.6m, fault with gouge, increase in diopside alteration and possible pyroxene or black chlorite? Mt (40%). Faulted contact with underlying skarn at 15 tca.												
25	FLTG	Mb	Garnet skarn with secondary diopside and calcite veins/veinlets at random throughout. Relict altered diorite can be seen throughout with secondary skarn alteration. Core is siliceous.	15							14069	27	28	20.9	
30	FLTG	Mt	33m, 6cm of gouge. 34.97-35.13m, Py stringers 15%. 38.04-39.44m, broken core 40.42-40.6m, py cubic and disseminated 15%. 42.63-62.73m, py 1-2mm cubes disseminated 15% in area of alteration with skarn and calcite, black pyroxene or chlorite is present as alteration halo? 43m, 5cm, py same as above. 46.57-46.72m, py 20%, pyr 10%, Mt 10% as blebs and stringers 49.15-52m, fault with gouge, py 2% disseminated throughout last 10cm. 53.87-54.61m, hem 15% as blebs in core.	85							14070	28	29	56.8	
35	FLTG			40							14071	29	30	45.4	
40	BC	Sk									14072	30	31	78.6	
											14073	31	32	75.6	
											14074	32	33	8.6	
					15	0	0	0	0	0					
					15	0	0	0	0	0					
					15	0	0	0	0	0					

Scale 1:300

03/19/12

16:57:30

Hole Name: RD11-49														
REDFORD IRON ORE PROJECT										Hole Length: 152.13				
Segment Start Depth: 43.54										Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45		Sk	Garnet skarn with secondary diopside and calcite veins/veinlets at random throughout. Relict altered diorite can be seen throughout with secondary skarn alteration. Core is siliceous.	10	20	10	0	0	0	0				
50		Sk	33m, 6cm of gouge. 34.97-35.13m, Py stringers 15%. 38.04-39.44m, broken core 40.42-40.6m, py cubic and disseminated 15%. 42.63-62.73m, py 1-2mm cubes disseminated 15% in area of alteration with skarn and calcite, black pyroxene or chlorite is present as alteration halo? 43m, 5cm, py same as above.	10	0	0	0	0	0	0				
55	FLTG	Mt	46.57-46.72m, py 20%, pyr 10%, Mt 10% as blebs and stringers 49.15-52m, fault with gouge, py 2% disseminated throughout last 10cm. 53.87-54.61m, hem 15% as blebs in core.	50	10	0	0	0	0	5	14076	54	55	0.2
											14077	55	56	5.8
											14078	56	57	0.5
											14079	57	58	1.9
											14080	58	59	39.3
											14081	59	60	0.4
											14082	60	61	0.2
60	BC	Mb	Impure magnetite (50%) mixed with diopside alteration and hedenbergite as well as calcite. Some areas of core display flow texture. Py (10%) veinlets throughout at random as well as disseminated cubes, hem(5%) blebs.  Entire unit is faulted.											
65		Mb	Light grey, medium to coarse grained marble.											
70	FLTG	Mb	60.67-66.77m, broken core 68.45-70m, fault with gouge. 70-73.29m, vuggy core.  Lower contact with underlying skarn is faulted.											
75	FLTG	Sk	Garnet skarn, same as described above with calcite blebs and veins/veinlets at random. Core is siliceous.	2	0	0	0	0	0	0				
			73.29-73.59m, py (2%) disseminated. 74.90m, 4cm of disseminated py 2%. 74.54-75.91m, vuggy core. 76-76.55m, fault with gouge. 78.32-79m, hem 5% 78.96-79.78m, chaotic section of alteration. Poss diorite being altered to skarn with quartz and diopside mixed, section ends with band of Mt (70%) from 79.59-79.78m with diopside alteration and py 25%	2	0	0	0	0	0	0				
80		Bs	Basalt with black fine grained groundmass, aphanitic phenos. Rare py bleb and calcite stringers.	70	25	0	0	0	0	0	14083	79	80	5.5

Scale 1:300

03/19/12

16:57:30

Hole Name: RD11-49																
REDFORD IRON ORE PROJECT										Hole Length: 152.13						
Segment Start Depth: 87.07										Segment End Depth: 130.61						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
90		Bs	Basalt with black fine grained groundmass, aphanitic phenos. Rare py bleb and calcite stringers.		1	0	0	0	0	0						
95		Dt	Diorite with skarn alteration, garnet and diopside mottled throughout core, alteration of biotite/hb phenos to diopside? Calcite veins 40tca.													
100		And	Andesite dyke that is cut parallel to core axis by basalt, possible basal contact between basalt and andesite? Basalt present throughout. Andesite varies from light to dark grey groundmass with 1-4mm plag phenos (30%), 1-2mm hb lathes (15%). Andesite becomes more altered towards lower contact with Mt-skarn unit, groundmass becomes muddy brown.	70							14084	98	99	13.2		
		Mt											14085	99	100	33
													14086	100	101	48.8
													14087	101	102	24.3
105			Magnetite-skarn unit, magnetite is mixed with diopside-garnet skarn with some areas of brecciation with magnetite infilling. Calcite stringers throughout at random.													
110																
115		And	Porphyritic andesite with light grey, fine grained groundmass, dessicated plag phenos and 1-4mm hb phenos (10%). Rare calcite vein 40tca, calcite is also along fracture planes. Rare py throughout.		1	0	0	0	0	0						
120			123.36-126.1m, andesite becomes slightly altered with flow texture and phenos becoming flow oriented. Diorite intrusions become present in core.													
125			128.24-129.16m, area of alteration, same as above.													
			129.16-130.3m, altered diorite intrusion.													
130																
Scale 1:300			03/19/12			16:57:30										

Hole Name: RD11-49														
REDFORD IRON ORE PROJECT										Hole Length: 152.13				
Segment Start Depth: 130.61										Segment End Depth: 174.14				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
135		And	Porphyritic andesite with light grey, fine grained groundmass, dessicated plag phenos and 1-4mm hb phenos (10%). Rare calcite vein 40tca, calcite is also along fracture planes. Rare py throughout.		1	0	0	0	0	0				
140		Dt	123.36-126.1m, andesite becomes slightly altered with flow texture and phenos becoming flow oriented. Diorite intrusions become present in core. 128.24-129.16m, area of alteration, same as above. 129.16-130.3m, altered diorite intrusion.		1	0	0	0	0	0				
145					5	0	0	0	0	0				
150				Diorite with propylitic alteration of biotite phenos to epidote and poss black chlorite??, core is highly siliceous with rare cubic py. Calcite stringers throughout. 146.22-146.47m, py (5%) disseminated along fracture plane.		1	0	0	0	0	0			
155			152.13m, EOH											
160														
165														
170														
Scale 1:300			03/19/12					16:57:30						

Hole Name: RD11-48															
REDFORD IRON ORE PROJECT											Hole Length: 133.54				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5															
10		OB													
15															
20															
25			Medium to coarse grained light grey marble.												
30		Mb	32.62m-34.87m, porphyritic andesite dyke with grey groundmass, 1-2mm plag and 1-4mm hb lathes. Occasional calcites phenos and along fracture planes. 35.98-39.02m, core is slightly vuggy. 36.5-36.66m, annealed fault.												
35	FLT														
40	FLTG	And	Altered andesite dyke with high degree of alteration and silica washed from 40.62 to 43.66m. Dessicated plag and aphanitic hb phenos, ground mass is dark green/grey to bleached. Calcite stringers throughout, upper contact is faulted with fault running from 40.62-40.75m												
Scale 1:300				03/19/12				16:57:16							



Hole Name: RD11-48														
REDFORD IRON ORE PROJECT										Hole Length: 133.54				
Segment Start Depth: 43.54										Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
-45		And	Altered andesite dyke with high degree of alteration and silica washed from 40.62 to 43.66m. Dessicated plag and aphanitic hb phenos, ground mass is dark green/grey to bleached. Calcite stringers throughout, upper contact is faulted with fault running from 40.62-40.75m	85	5	15	0	0	0	0	14067	44	45	30.4
		Mt									14068	45	46	29
-50			Massive Mt (85%) with some diopside alteration and calcite blebs. Py 5% and pyr 15% as stringers and blebs.											
-55	FLT		Choatic diopside-garnet skarn with minor epidote and calcite stringer throughout. Core is highly siliceous and with areas of bleaching and areas of diopside-pyroxene domination. Rare Py bleb 2%.		2	0	0	0	0	0				
-60	FLTG	Sk	53.08-54.0m, fault 55.80-62.84m, fault with areas of gouge. 62.8m, 7 cm of hem 5% along vein 45 tca, and as blebs along fracture plane. 70.2-70.52m, hem 5% as stringers. 71.2-72.82m, fault with gouge. 74.85-75.50m, fault with gouge, faulted contact with underlying diorite.		0	0	0	0	0	5				
-70	FLTG		Diorite with a high degree of propylitic alteration, epidote and black chlorite throughout? Core is also highly siliceous.  76.06-76.48m, 1-2mm py (10%)cubes as well as along veinlets.		0	0	0	0	0	5				
-75	FLTG	Dt	Garnet skarn with minor pyroxene, epidote and calcite veinlets/stringers throughout. Py is disseminated as 1-3mm cubes 15%.		10	0	0	0	0	0				
-80		Sk	Altered diorite, same as described above. Core is highly siliceous with intrusions of garnet skarn.  83.83-92.62 broken core, possible fault.		15	0	0	0	0	0				
-85	BC	Dt	98.17-99.0m, fault with gouge. 103.63-105m, rare calcite veins. 105-106.32m, garnet becomes present in core as stringers.											

Scale 1:300

03/19/12

16:57:16

Hole Name: RD11-48															
REDFORD IRON ORE PROJECT											Hole Length: 133.54				
Segment Start Depth: 87.07											Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
90	BC	Dt	<p>Altered diorite, same as described above. Core is highly siliceous with intrusions of garnet skarn.</p> <p>83.83-92.62 broken core, possible fault.</p> <p>98.17-99.0m, fault with gouge.</p> <p>103.63-105m, rare calcite veins.</p> <p>105-106.32m, garnet becomes present in core as stringers.</p>												
95															
100	FLTG														
105		Sk	Garnet skarn same as described above.												
110		Dt	<p>Altered diorite same as above, rare py disseminated throughout 2%.</p> <p>119.52-120.79m, diopside skarn with minor garnet is mixed with diorite</p> <p>121.6-122.57m, skarn mixed with diorite, same as above.</p> <p>124.75-133.54m, broken core</p> <p>133.54m, EOH</p>												
115															
120															
125	BC														
130															

Scale 1:300

03/19/12

16:57:16

Hole Name: RD11-48														
REDFORD IRON ORE PROJECT										Hole Length: 133.54				
Segment Start Depth: 130.61										Segment End Depth: 174.14				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
	BC	Dt	Altered diorite same as above, rare py disseminated throughout 2%. 119.52-120.79m, diopside skarn with minor garnet is mixed with diorite 121.6-122.57m, skarn mixed with diorite, same as above. 124.75-133.54m, broken core 133.54m, EOH		2	0	0	0	0	0				
-135														
-140														
-145														
-150														
-155														
-160														
-165														
-170														
Scale 1:300			03/19/12					16:57:16						

Hole Name: RD11-47

REDFORD IRON ORE PROJECT Hole Length: 152.13

Segment Start Depth: 0.00 Segment End Depth: 43.54

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
5		OB												
10														
15														
20														
25		Mb												
30			Medium to coarse grained light grey/white marble.											
35			38.14-38.78m, highly altered rhodochrosite-diopside skarn? with calcite veinlets. Py 2% and pyr 2% as blebs.											
40			2 2 0 0 0 0											

Hole Name: RD11-47																
REDFORD IRON ORE PROJECT										Hole Length: 152.13						
Segment Start Depth: 43.54										Segment End Depth: 87.07						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
45		Mb	Medium to coarse grained light grey/white marble.													
50			38.14-38.78m, highly altered rhodochrosite-diopside skarn? with calcite veinlets. Py 2% and pyr 2% as blebs.													
55		And	Porphyritic andesite dyke with light grey groundmass with dещociated plag (20%)and calcite (5%) phenos. Hb (10%)lathes 1-4 mm. Upper contact is distorted due to broken, blocky core, lower contact is at 20 tca.													
60																
65		Mb	Marble same as described above. 64.30-65.07m, altered basalt intrusion with alteration of groundmass and epidote altered calcite veins/veinlets at random orientations													
70		And	Porphyritic andesite, same as described above with from 69.10-70.25m being altered and containing a garnet skarn intrusion from 69.82 to 70.25m.													
75		Mb	Same as described above with an area for alteration from 73.46 to 74m and 76.90-77.06m to possible rhodochrosite skarn??													
80	FLTG- FLTG-	Mt	Massive Mt (90%) with minor diopside and poss. hedenbergite alteration.	90							14051	77	78	27.9		
			81.64-81.77m, small fault with gouge.										14052	78	79	86.8
			82.44-82.84m, small fault with gouge.										14053	79	80	92.8
			86.72-87.38m, fault with gouge and faulted lower contact with underlying skarn.										14054	80	81	91.6
													14056	81	82	95.6
													14057	82	83	84.6
													14058	83	84	91.6
85	FLTG-										14059	84	85	90		
											14060	85	86	93.6		
											14061	86	87	85.2		
											14062	87	88	40.2		

Scale 1:300

03/19/12

16:56:50

Hole Name: RD11-47															
REDFORD IRON ORE PROJECT										Hole Length: 152.13					
Segment Start Depth: 87.07										Segment End Depth: 130.61					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
-90	FLIG-Mt	Mt	<p>Massive Mt (90%) with minor diopside and poss. hedenbergite alteration.</p> <p>81.64-81.77m, small fault with gouge. 82.44-82.84m, small fault with gouge. 86.72-87.38m, fault with gouge and faulted lower contact with underlying skarn.</p>	40							14062	87	88	49.2	
												14063	88	89	12
												14064	89	90	9.3
-95				5	0	0	0	0	0	0					
-100			<p>Diopside skarn with secondary garnet, minor epidote and calcite blebs/stringers. Areas of core downhole have been bleached.</p>												
-105			<p>87.28-89.88m, Mt (40%) is mixed with skarn. 93.10-102.8m, skarn becomes highly siliceous. 93.16m, 2cm band of Mt 25% 94.60-97.26m, Py (5%) as 1-3mm cubes disseminated throughout. 99.73m, Py 7% blebs along veinlets.</p>												
-110		Sk	<p>107.06-110.15m, py (15%) as 1-3mm cubes and as blebs, disseminated throughout. Core within this area is very vuggy with increase in calcite. 115.46-124.32m, Py 15% as 1-3mm cubes and as blebs. Skarn is very chaotic with diopside-epidote mixed with marble 124.32-125.67m, py 20%, Mt 15% mixed with skarn and marble. 125.67-128m, py 10%</p>	15	0	0	0	0	0	0					
-115															
-120			<p>Porphyritic andesite with light grey groundmass, dessicated plag and 1-3mm hb phenos (15%). Calcite blebs and stringers throughout as well as along fracture planes. Rare py 2%.</p>	15	0	0	0	0	0	0					
-125			<p>Entire unit is blocky with areas of rubble. Some core loss throughout.</p>	15	20	0	0	0	0	0	14065	124	125	6.3	
											14066	125	126	2.3	
-130	BC	And	<p>138.3m, faulted contact with underlying marble.</p>	2	0	0	0	0	0	0					

Scale 1:300

03/19/12

16:56:50

Hole Name: RD11-47															
REDFORD IRON ORE PROJECT										Hole Length: 152.13					
Segment Start Depth: 130.61										Segment End Depth: 174.14					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
135	BC	And	<p>Porphyritic andesite with light grey groundmass, desiccated plag and 1-3mm hb phenos (15%). Calcite blebs and stringers throughout as well as along fracture planes. Rare py 2%.</p> <p>Entire unit is blocky with areas of rubble. Some core loss throughout.</p> <p>138.3m, faulted contact with underlying marble.</p>		2	0	0	0	0	0					
140					5	0	0	0	0	0					
145	FLTG-0	Mb	<p>Medium to coarse grained marble with chaotic areas of alteration with diopside/epidote skarn mixed in. Skarn intrusion throughout.</p> <p>140.41m, 10cm garnet-epidote skarn inclusion with 5% py</p> <p>140.8-143.02m, garnet-diopside skarn intrusion mixed with altered basalt. Rare py disseminated throughout.</p> <p>144.53-145.47m, skarn intrusion same as above, intrusion is faulted from 144.53-144.96m.</p> <p>Core is blocky throughout unit.</p> <p>152.12m, EOH</p>		1	0	0	0	0	0					
150															
155															
160															
165															
170															

Scale 1:300

03/19/12

16:56:50

Hole Name: RD11-46															
REDFORD IRON ORE PROJECT											Hole Length: 194.51				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5															
10		OB													
15															
20															
25															
30			Coarse to medium grained light grey marble with areas of propylitic alteration?												
35		Mb	32.37-35.08m, altered andesite dyke with green/muddy brown very fine grained groundmass, aphanitic plag and dessicated hb phenos. Marcasite along fracture planes 2%. Last 8 cms of dyke is gouge.												
40															
Scale 1:300				03/19/12				16:56:37							



Hole Name: RD11-46														
REDFORD IRON ORE PROJECT										Hole Length: 194.51				
Segment Start Depth: 43.54										Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45		Mb	Coarse to medium grained light grey marble with areas of propylitic alteration?											
50	FLTG-G	Mt	32.37-35.08m, altered andesite dyke with green/muddy brown very fine grained groundmass, aphanitic plag and dessicated hb phenos. Marcasite along fracture planes 2%. Last 8 cms of dyke is gouge. Massive magnetite (90%) with minor diopside alteration and py blebs 5%.	90	5	0	0	0	0	0	13801	51	52	57
55		Mt	52.29-52.62m, fault with gouge. 54.5-55.54m, altered andesite dyke with aphanitic hb and 2-3mm dessicated plag phenos, calcite veinlets 40tca, and calcite along fracture planes. 54.33-54.54m, small marble intrusion. 55.54-56m, py 10% pyr 15%.	90	10	15	0	0	0	0	13802	52	53	89
60		Mb	56-57.32m, Unit ends in porphyritic andesite dyke with dessicated hb and plag phenos 2-3mm in size, calcite along fracture planes. Same as described above, mottled with areas of light to dark green talc and cut by several small altered andesite dykes.	25	5	2	0	0	0	0	13803	53	54	54.8
65		Mt	58.93-59.01m, andesite dyke 60.18-60.46m, band of Mt 25%, pyr 5%, py 2%. 60.46-60.76m, altered andesite dyke 60.76-60.86m, Mt (15%) blebs with 7% pyr mixed with marble and talc. 61.51-61.84m, altered andesite dyke.	90	2	0	0	0	0	0	13804	54	55	39.7
70		Sk	Massive magnetite (90%) with minor epidote-garnet skarn throughout, lower contact is graded with underlying garnet skarn. Py 2% along veinlets.	25							13805	60	60.5	26.2
75		Sk	Garnet skarn with secondary diopside and minor epidote and quartz. Calcite veinlets and blebs throughout at random orientation.								13807	65	66	54.4
80		Sk	70.36-70.9m, Mt 25% mixed with skarn and as 2cm veins 60 tca. 72.7-78.56m, skarn becomes very siliceous with altered andesite dyke from 73.06-73.48m. 79.10-79.73m py 5% as stringers, 79.56-79.64m, pyr 10%. 80.69m, py bleb 5% 86-87.48m, skarn becomes siliceous again. 100.94-101.50m, Mt 15% mixed with skarn, py 5%, pyr 10% 105.85-106.2m, Mt 15%, py 10% mixed with skarn.	5	0	0	0	0	0	0	13808	66	67	88
85		Sk									13809	67	68	90.6
											13810	68	69	87
											13811	69	70	26.3
											13812	70	71	7

Scale 1:300

03/19/12

16:56:37

Hole Name: RD11-46																
REDFORD IRON ORE PROJECT										Hole Length: 194.51						
Segment Start Depth: 87.07										Segment End Depth: 130.61						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
90		Sk	Garnet skarn with secondary diopside and minor epidote and quartz. Calcite veinlets and blebs throughout at random orientation.  70.36-70.9m, Mt 25% mixed with skarn and as 2cm veins 60 tca. 72.7-78.56m, skarn becomes very siliceous with altered andesite dyke from 73.06-73.48m. 79.10-79.73m py 5% as stringers, 79.56-79.64m, pyr 10%. 80.69m, py bleb 5% 86-87.48m, skarn becomes siliceous again. 100.94-101.50m, Mt 15% mixed with skarn, py 5%, pyr 10% 105.85-106.2m, Mt 15%, py 10% mixed with skarn.													
95																
100						15	5	10	0	0	0	0	13813	100.8	102	8
105						15	10	0	0	0	0	0	13814	106	107	35
													13815	107	108	37.4
													13816	108	109	25.4
													13817	109	110	27.3
													13818	110	111	34.1
													13819	111	112	25.6
													13820	112	113	27.9
110		Mt	Magnetite mottled with diopside-garnet skarn with minor epidote throughout. Areas of core are brecciated with magnetite infilling around skarn inclusions. Magnetite ranges from 50 to 90% throughout unit.  115.24-123.43m, Mt 50% with py 10% along veinlets. 123.43-146.9m, Mt 80% and py 10%, py increases along faults 126.68-127.54m (15%) and from 133.2-133.76m, py 20%, pyr 10%. Faults contain pulverized core, gouge and slick n slides. 142.35m, py increase to 15% along fracture plane. 147.12-147.22m, small fault with gouge. 149.9m, slick n slide, py 15% 150.31m, slick n slide, py 15%. 147-156.8m, 90% Mt	70								13821	113	114	28.5	
													13822	114	115	25
													13823	115	116	13.9
													13824	116	117	20.8
													13825	117	118	19.1
													13827	118	119	18.7
						50	10	0	0	0	0	0	13828	119	120	15.7
													13829	120	121	19
													13830	121	122	23.8
													13831	122	123	12.1
													13832	123	124	36.3
													13833	124	125	56.8
													13834	125	126	57
													13835	126	127	48.9
						80	15	0	0	0	0	0	13836	127	128	19.5
											13837	128	129	20.8		
											13838	129	130	70.2		
130				80	10	0	0	0	0	0	13839	130	131	62.4		

Scale 1:300

03/19/12

16:56:37

Hole Name: RD11-46																	
REDFORD IRON ORE PROJECT										Hole Length: 194.51							
Segment Start Depth: 130.61										Segment End Depth: 174.14							
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct			
135	FLTG	Mt	Magnetite mottled with diopside-garnet skarn with minor epidote throughout. Areas of core are brecciated with magnetite infilling around skarn inclusions. Magnetite ranges from 50 to 90% throughout unit.	80	10	0	0	0	0	0	0	13839	130	131	69.4		
				80	10	0	0	0	0	0	0	0	13840	131	132	75	
				80	20	10	0	0	0	0	0	0	0	13841	132	133	64.6
				80	20	10	0	0	0	0	0	0	0	13842	133	134	48
				80	20	10	0	0	0	0	0	0	0	13843	134	135	36
				80	20	10	0	0	0	0	0	0	0	13844	135	136	35.7
				80	20	10	0	0	0	0	0	0	0	13845	136	137	51.8
140	FLTG	Mt	115.24-123.43m, Mt 50% with py 10% along veinlets. 123.43-146.9m, Mt 80% and py 10%, py increases along faults 126.68-127.54m (15%) and from 133.2-133.76m, py 20%, pyr 10%. Faults contain pulverized core, gouge and slick n slides. 142.35m, py increase to 15% along fracture plane. 147.12-147.22m, small fault with gouge. 149.9m, slick n slide, py 15% 150.31m, slick n slide, py 15%. 147-156.8m, 90% Mt	80	10	0	0	0	0	0	0	13847	137	138	58.2		
				80	10	0	0	0	0	0	0	0	13848	138	139	5.2	
				80	10	0	0	0	0	0	0	0	13849	139	140	32	
				80	10	0	0	0	0	0	0	0	13850	140	141	51.2	
				80	10	0	0	0	0	0	0	0	14001	141	142	27.5	
				80	10	0	0	0	0	0	0	0	14002	142	143	52.8	
				80	10	0	0	0	0	0	0	0	14003	143	144	39.7	
145	FLTG	Mt	Diopside skarn with secondary garnet and calcite stringers throughout. Rare cubic py disseminated throughout. 157-159.27m, fault with gouge. 160.52-160.98m, Mt 25% mixed with skarn, py 10%.	80	10	0	0	0	0	0	0	14004	144	145	25.4		
				80	10	0	0	0	0	0	0	0	14005	145	146	47	
				80	10	0	0	0	0	0	0	0	14006	146	147	49.3	
				90	0	0	0	0	0	0	0	0	14007	147	148	53	
				90	0	0	0	0	0	0	0	0	14008	148	149	64	
				90	0	0	0	0	0	0	0	0	14009	149	150	65.6	
				90	0	0	0	0	0	0	0	0	14010	150	151	66	
150	FLTG	Sk	Medium grained grey marble with some areas of alteration, graded contact with overlying skarn. 160.98-161.10m, Mt 25% mixed in skarn. 164.16-164.26m, py 15%.	90	0	0	0	0	0	0	0	14012	151	152	71.8		
				90	0	0	0	0	0	0	0	0	14013	152	153	75	
				90	0	0	0	0	0	0	0	0	14014	153	154	70.6	
				90	0	0	0	0	0	0	0	0	14015	154	155	69.4	
				90	0	0	0	0	0	0	0	0	14016	155	156	48.3	
				90	0	0	0	0	0	0	0	0	14017	156	157	29.8	
				90	0	0	0	0	0	0	0	0	14018	157	158	29.8	
160	FLTG	Mb	Porphyritic andesite with grey groundmass and dessicated plag (40%) and hb (20%)phenos. 164.33-167m, broken core 169.51-173.56m, broken core.	25	10	0	0	0	0	0	0	14018	160	161.5	7.1		
				25	10	0	0	0	0	0	0	0	14018	160	161.5	7.1	
165	BC	And	Altered basalt with biotite alteration of groundmass and calcite veining/veinlets with epidote alteration, 30 tca. Units starts with small intrusion of marble from 173.56-174m. 176.73-176.83m, garnet skarn intrusion. 177.9m-178m, faulted contact with underlying marble, garnet is present at contact.	15	0	0	0	0	0	0	0	14018	160	161.5	7.1		
				15	0	0	0	0	0	0	0	0	14018	160	161.5	7.1	
170	BC	Bs		15	0	0	0	0	0	0	0	14018	160	161.5	7.1		
				15	0	0	0	0	0	0	0	0	14018	160	161.5	7.1	

Scale 1:300

03/19/12

16:56:37

Hole Name: RD11-46																
REDFORD IRON ORE PROJECT											Hole Length: 194.51					
Segment Start Depth: 174.14											Segment End Depth: 217.68					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
		Bs														
180	CTCF	Mb	Altered basalt with biotite alteration of groundmass and calcite veining/veinlets with epidote alteration, 30 tca. Units starts with small intrusion of marble from 173.56-174m.													
185	FLTG	Sk	176.73-176.83m, garnet skarn intrusion. 177.9m-178m, faulted contact with underlying marble, garnet is present at contact.													
190	FLTG	Mb	Marble, same as above with garnet inclusion throughout.  Highly siliceous garnet skarn with minor diopside and calcite veining. Entire unit is faulted													
195			Marble same as described above with garnet inclusions. From upper contact to 187.5m is faulted, this is a continuation of a large fault throughout previous unit.													
200			191.5-192m, fault with gouge.  194.51m, EOH													
205																
210																
215																
Scale 1:300			03/19/12					16:56:37								

Hole Name: RD11-45														
REDFORD IRON ORE PROJECT										Hole Length: 154.27				
Segment Start Depth: 0.00										Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
5		OB												
10		OB												
15		OB												
20		OB	<p>Medium to fine grained light grey marble.</p> <p>25.08-26.83m, faulted andesite dyke with grey groundmass and aphanitic plag/hb phenos.</p>											
25		Mb	<p>Massive magnetite (90%) with minor diopside alteration and py (10%) blebs throughout and along veins/fracture planes. Graded contact with overlying marble which is mixed with magnetite for the first 60cm of unit. Unit ends in 10cm of gouge.</p>											
30		Mb												
35		Mb	<p>Siliceous porphyritic andesite with grey/green groundmass with dessicated plag (1-3mm) 40% and hb (1-4mm) 15% phenos, some anchorite lathes 5%. Calcite is present along fracture planes.</p>											
40		Mt	<p>Upper contact is very fine grained and altered with aphanitic plag and hb for the first 30cm and then is cut by intursion of garnet skarn (41.21-42.25m). First part of unit is very blocky with areas of rubble.</p>	90	10	0	0	0	0	0				
		And												
											13760	36	37	0.2
											13761	37	38	63.4
											13762	38	39	69.4
											13763	39	40	55
											13764	40	41	54.4
Scale 1:300			03/19/12						16:56:21					

Hole Name: RD11-45														
REDFORD IRON ORE PROJECT										Hole Length: 154.27				
Segment Start Depth: 43.54										Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45		And	Siliceous porphyritic andesite with grey/green groundmass with desiccated plag (1-3mm) 40% and hb (1-4mm) 15% phenos, some anchorite lathes 5%. Calcite is present along fracture planes.											
		Sk	Upper contact is very fine grained and altered with aphanitic plag and hb for the first 30cm and then is cut by intrusion of diopside skarn (1-2mm) 40%. First 10cm from upper contact is very black pyroxene? poss hedenbergite, calcite veining and stringers at random with minor epidote becoming present downhole towards lower contact. Areas of skarn are highly siliceous.											
50	FLTG	And	44.9-45.85m, altered andesite dyke with fine grained grey/green groundmass, aphanitic plag and rare hb (1-3mm) with alteration halos. Calcite stringers throughout and along fracture planes.	40	20	0	0	0	0	0	13765	53	54	19.8
			Medium to coarse grained grey marble with intrusions of porphyritic andesite. Same as described above.	40							13766	54	55	34.2
											13767	55	56	9.1
55			53.33-55.57m, chaotic section with magnetite (40%) and garnet skarn mixed throughout marble, py 20% is present from 54.3-54.66m.	90							13768	58	59	13.8
			58.84-59.75m, band of Mt 90% with some diopside alteration and minor graphite becomes mixed with marble at 59.3m, Mt 40%.	95	0	0	0	0	0	20	13770	61	62	34.6
			60.1-62.80m, marble becomes altered with dark green talc and white chlorite? throughout.	95	2	0	0	0	0	0	13771	62	63	13.1
			61.25-63.9m, hem (20%) along fracture planes and as veining parallel tca. 63.6m Py also present as cubic blebs 15% along fracture plane.	95	2	0	0	0	0	0	13772	65.2	65.7	15.2
			61.7m, 10cm band of Mt (95%) with py 2% and hem 3%.											
			61.92m-62.13m, band of Mt (95%) with py 2%.											
			64.46-64.55m, band of Mt (95%) with py 2%.											
			64.8-72.1m, Chaotic section of marble highly altered with pure magnetite (90%) with diopside alteration and py 2% cut by andesite dykes. First 10cm from upper contact is diopside skarn.	90	2	0	0	0	0	0	13774	72	73	38.6
				90	2	0	0	0	0	0	13775	73	74	15.3
			72.9-73.34m, altered andesite dyke with calcite stringers.	90	2	0	0	0	0	0	13776	74	75	47.1
			73.53-74.44m, dyke, same as above.	90	2	0	0	0	0	0	13777	75	76	39.4
			75m to 76.5m, garnet-diopside skarn becomes mixed with Mt porphyritic andesite with fine grained grey groundmass desiccated plag phenos up 4mm and aphanitic hb, calcite stringers throughout. Rare cubic py.	65							13778	76	77	10.5
			76.55-77.7m, andesite is highly altered and chaotic with dark green/grey groundmass aphanitic plag/hb and increase in garnet skarn mixed with magnetite and diopside with minor epidote and calcite stringers throughout.	25	1	0	0	0	0	0	13779	82	83	63.8
				85	10	0	0	0	0	0	13780	83	84	24.9
			82.52-83.7m, Mt increases to 85% with py 10%	25							13781	84.5	86	39.7
			86.12-86.76m, Mt increases again to 70% with py 10% and pyr 20%	25							13782	86	87	53.8
			86.76m, skarn becomes increasingly diopside rich and faulted downhole to end of unit at 86.47m	70	10	20	0	0	0	0	13783	87	88	30.0

Scale 1:300

03/19/12

16:56:21

Hole Name: RD11-45														
REDFORD IRON ORE PROJECT										Hole Length: 154.27				
Segment Start Depth: 87.07										Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
-90	FLTG	Sk	Garnet skarn mottled with magnetite and diopside with minor epidote and calcite stringers throughout.								13783	87	88	30.9
											13784	88	89	5.3
-95		And	82.52-83.7m, Mt increases to 85% with py 10% 86.12-86.76m, Mt increases again to 70% with py 10% and pyr 20% 86.76m, skarn becomes increasingly diopside rich and faulted downhole to end of unit at 89.47m											
-100		Sk	Porphyritic andesite with grey fine grained groundmass and dessicated plag/hb phenos. Calcite vein/veinlets throughout a random orientatin. Entire unit is faulted with broken, pulverized core and gouge, fault starts in previous overlying unit at 88.9m and ends at 96.3		5	0	0	0	0	0				
-105		Mt	Diopside skarn with secondary garnet and epidote, minor black pyroxene throughout as well as calcite blebs and veins/veinlets. Skarn is mottled with areas of flow banding. Disseminated py throughout 5% as 1-4mm cubes.								13785	101	102	16.4
											13786	102	103	40.5
											13787	103	104	41.2
											13788	104	105	48.7
				70	5	5	0	0	0	0	13789	105	106	41.6
											13790	106	107	49.4
											13791	107	108	37.3
											13792	108	109	17.5
-110		Mt	108.54-110.25m, diopside skarn with calcite stringers throughout and minor garnet. Py disseminated throughtout 2% except from 108.64-108.78m where py increase to 30% and Mt 25%.	25	30	0	0	0	0	0				
											13794	110	111	20.9
-115		Sk	110.25-110.88m, Mt 70%, py 15%, pyr 25% mixed with skarn. Siliceous diopside-skarn with secondary garnet and calcite vei											
-120		Sk	117.68-120.06m quartz becomes increasingly mixed with skarn											
-125		Dt	Siliceous diorite with propylitic alteration of hb and bt phenos to epidote. Inclusions of basalt and altered andesite throughout and well as black chlorite veining/stringers. 126-127.48m, py 5% along fracture planes. 132-132.93m, intursion of basalt that becomes bleached towards lower contact with diorite. Py 5% as blebs along fracture planes 133.33-135.22m, intursion of basalt, same as above. 137.92-138.47m, intursion of basalt, same as above with py 7% vein mixed with calcite at 138.34m, 55 tca. 137.85-138.58m, altered andesite dyke with alteration of groundmass and dessicated plag phenos, hb lathes 1-2mm. 149.05-149.69m, altered andesite dyke, same as above.		5	0	0	0	0	0				
-130			154.27m, EOH											

Scale 1:300

03/19/12

16:56:21

Hole Name: RD11-45															
REDFORD IRON ORE PROJECT										Hole Length: 154.27					
Segment Start Depth: 130.61										Segment End Depth: 174.14					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
-135		Dt	<p>Siliceous diorite with propylitic alteration of hb and bt phenos to epidote. Inclusions of basalt and altered andesite throughout and well as black chlorite veining/stringers. 126-127.48m, py 5% along fracture planes. 132-132.93m, intursion of basalt that becomes bleached towards lower contact with diorite. Py 5% as blebs along fracture planes 133.33-135.22m, intursion of basalt, same as above. 137.92-138.47m, intursion of basalt, same as above with py 7% vein mixed with calcite at 138.34m, 55 tca. 137.85-138.58m, altered andesite dyke with alteration of groundmass and dessicated plag phenos, hb lathes 1-2mm. 149.05-149.69m, altered andesite dyke, same as above.</p> <p>154.27m, EOH</p>		5	0	0	0	0	0					
-140						5	0	0	0	0	0				
-145															
-150															
-155															
-160															
-165															
-170															
Scale 1:300				03/19/12				16:56:21							



Hole Name: RD11-44																
REDFORD IRON ORE PROJECT											Hole Length: 110.67					
Segment Start Depth: 0.00											Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
5		OB														
10		And	Andesite with dark grey groundmass and mm plag phenos 25%, aphanitic hb phenos.													
15		Bs	Altered siliceous basalt mottled with patches of diorite inclusions as well as veining, biotite alteration of groundmass and epidote alteration of calcite veining/stringers throughout with associated flourite. Rare py throughout.  29.9m pyr 3% along veinlet. 31.11-34.05m, basalt becomes increasingly altered taking on skarn like quality.	1	0	0	0	0	0	0						
25		Bs	Garnet skarn with calcite stringers throughout. Unit is faulted with broken and pulverized core, some core loss.													
30		Bs	Coarse grained light grey vuggy marble. Garnet inclusion in last 10cm of unit.  40.15-40.3m, small fault with gouge.													
35	FLTG	Sk	Garnet skarn with secondary diopside and minor epidote. Calcite veins/veinlet throughout.													
40	FLTG	Mb	Altered andesite with fine grained green groundmass, 2-3mm hb lathes 10% and mm plag phenos 10%.													
		Sk	42.67-42.9m, 1-2mm cubic py disseminated along fracture planes.													
		And	48.26-48.66m, alteration of andesite to diopside skarn with secondary garnet.	5	0	0	0	0	0	0						

Scale 1:300

03/19/12

16:56:07

Hole Name: RD11-44																
REDFORD IRON ORE PROJECT											Hole Length: 110.67					
Segment Start Depth: 43.54											Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
45		And	Altered andesite with fine grained green groundmass, 2-3mm hb lathes 10% and mm plag phenos 10%.													
50		Mb	42.67-42.9m, 1-2mm cubic py disseminated along fracture planes. 48.26-48.66m, alteration of andesite to diopside skarn with secondary garnet. Light grey medium to fine grained marble . Diopside skarn with secondary garnet and minor epidote alteration halos around calcite veinlets and stringers.													
55		Sk	55.86-56.05m, band of Mt 25% mixed mixed with skarn and pyr 10% stringers.	25	0	10	0	0	0	0						
60		Mb	Same as described above with epidote becoming present downhole as stringers and along fracture planes. 57.8-59.82m, pyroxene skarn with secondary garnet and epidote alteration of calcite veins. 60.85-61.31m, area of alteration, poss black pyroxene skarn with dark green talc and epidote mixed in. 62.18-62.63m, area of alteration, same as above. Unit ends with 20cm of altered marble, same as above.													
70		Dt	Altered diorite with 50% plag, 30% bt and 20% qtz. Biotite has been altered and bleached in areas, epidote alteration of calcite stringer and veins throughout with some associated fluorite blebs. Py along fracture plane 5%. 74.1-75.78m, basalt intrusion 79.75-81.1m, diorite grades into diopside skarn with secondary garnet.													
75		Mb	Same as described above. 82.34-83.55m, altered andesite dyke. 86-86.1 vuggy Garnet skarn with secondary diopside and minor epidote. Calcite stringers throughout.	5	0	0	0	0	0	0						
80		Sk	86.21-86.5m, hematite 15% present along calcite vein parallel tca. 88.8-91.57m, skarn becomes diopside(95%)dominated with minor dendritic garnet and calcite alteration.	0	0	0	0	0	0	45						

Scale 1:300

03/19/12

16:56:07

Hole Name: RD11-44															
REDFORD IRON ORE PROJECT											Hole Length: 110.67				
Segment Start Depth: 87.07											Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
90		Sk	Garnet skarn with secondary diopside and minor epidote. Calcite stringers throughout.												
95			86.21-86.5m, hematite 15% present along calcite vein parallel tca. 88.8-91.57m, skarn becomes diopside(95%)dominated with minor dendritic garnet and calcite alteration.												
100		Dt	Diorite with 50% plag, 35% biotite and 15% qtz, epidote veining and stringers throughout with alteration halos.												
105			105.88 to EOH, Broken and rubbly core.												
110	BC		110.67m EOH												
115															
120															
125															
130															
Scale 1:300			03/19/12						16:56:07						

Hole Name: RD11-43															
REDFORD IRON ORE PROJECT											Hole Length: 133.54				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		OB	Porphyritic andesite dyke, grey fine grained groundmass with desiccated plag phenos (30%) and aphanitic hb phenos (10%).												
10		And	Altered basalt with biotite alteration of groundmass and epidote veining, along with minor associated fluorite. Mottled with chaotic patches of quartz and diorite like texture? throughout. Py 3% disseminated throughout.	3	0	0	0	0	0	0					
15			16.31-16.55m, increase in py to 5%, marcasite along fracture planes 20%. 20.8-20.95m, vuggy with brown clay gouge.	5	0	0	0	0	0	0					
20		Bs	Garnet skarn with minor calcite bands and hematite 25% throughout core and as stringers. Upper contact with basalt is faulted ending at 32.15m. Unit ends with 10cm of vuggy iron stained core.												
25			32.2-32.31m, py 5% disseminated throughout calcite band.												
30	CTCF←	Sk	Coarse to medium grained light grey marble, core is vuggy from 33.72-35.41m	0	0	0	0	0	0	25	13758	31.5	33	0.3	
35	FLTG←	Mb	35.41m-35.61m, small faulted andesite dyke and marble with gouge. 35.90-36.94m, altered andesite dyke with fine grained green groundmass and aphanitic plag /hb phenos, calcite vein/veinlets throughout at random orientation. 43.85-45.6m, garnet skarn intrusion mixed with some marble. Broken core.	0	0	0	0	0	0	25	13759	33	34	0.5	
40															

Scale 1:300

03/19/12

16:55:53

Hole Name: RD11-43																
REDFORD IRON ORE PROJECT											Hole Length: 133.54					
Segment Start Depth: 43.54											Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
45	BC	Mb	Coarse to medium grained light grey marble, core is vuggy from 33.72-35.41m													
50	CTCF	And	35.41m-35.61m, small faulted andesite dyke and marble with gouge. 35.90-36.94m, altered andesite dyke with fine grained green groundmass and aphanitic plag /hb phenos, calcite vein/veinlets throughout at random orientation. 43.85-45.6m, garnet skarn intrusion mixed with some marble. Broken core.													
55		Mb	Altered andesite with green fine grained groundmass, 1-2mm plag phenos and dessicated hb phenos, calcite stringers throughout. Unit is in basal contact with overlying marble.													
60		Mb	Fine to medium grained light to dark grey marble with areas of epidote alteration and dark green talc mixed with chlorite? along fracture planes. Unit begins with faulted contact (50.82-51.06m)													
65		Bs	60.61-60.95m, area of alteration with soft black mineral, poss black chlorite? mixed with rhodochrosite and dark green talc. 61.49-62.22m, area of alteration, same as above. 62.50-62.92m, area of alteration, same as above. 64-64.21m, area of alteration, same as above.	2	0	0	0	0	0	0						
75	FLTG	Mb	Chaotic unit of basalt mixed with garnet skarn and intrusions of diorite. Epidote altered calcite veins/veinlets throughout. Unit ends in diorite from 72.36-75.10 with some garnet skarn inclusions. 66.56-67.1m, altered andesite dyke with 5 cm of gouge. 69.59-70.4m, altered andesite dyke with 1-2mm cubic py 2% 73.06-74.14m, fault, pulervized core with gouge.													
80		Mb	Same as described above.													
85		Mb	78.24-78.48m, intrusion of garnet skarn with secondary diopside and minor calcite veinlets 50 tca. 91.78-92.35m, vuggy core with iron staining.													
Scale 1:300			03/19/12					16:55:53								

Hole Name: RD11-43														
REDFORD IRON ORE PROJECT										Hole Length: 133.54				
Segment Start Depth: 87.07										Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
90		Mb	Same as described above.											
		Mt	78.24-78.48m, intrusion of garnet skarn with secondary diopside and minor calcite veinlets 50 tca. 91.78-92.35m, vuggy core with iron staining.	90	15	0	0	0	0	0	13751	92	93	20.1
				90	15	0	0	0	0	0	13752	93	94.5	40.3
95		Mb	Impure magnetite 90% with minor epidote and diopside alteration, small inclusion of marble within unit. Py 15% throughout.											
		Mt	92.45-93m, cpy and apy? 10%	35	40	0	0	0	0	0	13754	98	99	7.3
				40							13755	99	100	11.5
				90							13756	100	101	30.7
											13757	101	102	24.8
100		Mt	Same as described above with increase epidote alteration.											
			98-99.57m, marble becomes mixed with large patches of pyr 40% and Mt 35%											
105			Impure magnetite mixed with black pyroxene skarn?											
			99.57-100.7m, 40% Mt 100.7-101.34 90% Mt											
110														
115		Dt	Diorite with 50% plag, 35% biotite and 15% quartz with iron staining throughout as well as minor epidote stringers.											
			131.42-132.56m, epidote veining at 40 tca with minor purple fluorite.											
120			EOH 133.54m											
125														
130														

Scale 1:300

03/19/12

16:55:53

Hole Name: RD11-43															
REDFORD IRON ORE PROJECT											Hole Length: 133.54				
Segment Start Depth: 130.61											Segment End Depth: 174.14				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
		Dt	Diorite with 50% plag, 35% biotite and 15% quartz with iron staining throughout as well as minor epidote stringers. 131.42-132.56m, epidote veining at 40 tca with minor purple fluorite. EOH 133.54m												
-135															
-140															
-145															
-150															
-155															
-160															
-165															
-170															
Scale 1:300			03/19/12					16:55:53							

Hole Name: RD11-42																
REDFORD IRON ORE PROJECT											Hole Length: 103.50					
Segment Start Depth: 0.00											Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
5		OB														
10	FLTG-0	Bs	Basalt, skarn-altered with zones of recrystallization and epidote/fluorite veins (1-2cm); heavier alteration with depth													
30		And	Andesite, aphanitic grey to tan groundmass, with 1-2mm 10% plag and 1mm 5% hb; tan areas from iron staining													
35		Bs	Basalt, as above, with lesser alteration levels													
40		Sk	Garnet skarn with minor diopside and trace epidote, heavily silicified to 43.65m													
Scale 1:300			03/19/12					16:55:40								



Hole Name: RD11-42																
REDFORD IRON ORE PROJECT										Hole Length: 103.50						
Segment Start Depth: 43.54										Segment End Depth: 87.07						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
45		Sk	Garnet skarn with minor diopside and trace epidote, heavily silicified to 43.65m													
50		Mb	Marble, massive, white, coarse crystalline 49.38-49.72, epidote skarn intrusion													
55	FLTG	And	Andesite, as above; groundmass slightly coarser, limited iron staining; well silicified													
60		Mb	Marble, as above 61.06-61.31, diopside skarn intrusion 64.34-65.08, low grade skarn intrusion 67.36-68.92, altered andesite intrusion 68.92, bleb of mt (5mm) at dyke contact 71.64-72.12, chloritized skarn intrusion													
70		Mb		1												
75			Garnet skarn with minor calcite veins 80.58, 1cm vein of calcite bounded on each side by 2-3mm of mt													
80		Sk	Diorite, 35% plag, 2-3mm, 25% qtz 2mm, 20% hb 1-3mm; heavily silicified to 83m; 89.45-90.3, andesite band with large inclusions of angular diorite within 93.7-94.67, andesite dyke with green aphanitic groundmass and 15% elongate 2-3mm plag along an angle of about 45 deg TCA.	10												
85		Dt	103.5m, EOH													

Scale 1:300

03/19/12

16:55:40

Hole Name: RD11-42															
REDFORD IRON ORE PROJECT											Hole Length: 103.50				
Segment Start Depth: 87.07											Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
90	BC	Dt	Diorite, 35% plag, 2-3mm, 25% qtz 2mm, 20% hb 1-3mm; heavily silicified to 83m;												
95			89.45-90.3, andesite band with large inclusions of angular diorite within												
100			93.7-94.67, andesite dyke with green aphanitic groundmass and 15% elongate 2-3mm plag along an angle of about 45 deg TCA.												
105			103.5m, EOH												
110															
115															
120															
125															
130															
Scale 1:300				03/19/12				16:55:41							

Hole Name: RD11-41															
REDFORD IRON ORE PROJECT											Hole Length: 114.63				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		OB													
10		Bs	Basalt with zones of biotite alteration and recrystallization; veinlet-sourced bleaching; becomes more altered with depth; heavy iron staining 24-24.7m												
20		Bs													
25		And	Andesite, aphanitic light grey groundmass with 10% 1-2mm hb and 5-10% 1mm plag; also 1-2% disseminated py; several zones of iron staining of groundmass; well silicified	1	0	0	0	0	0	0					
30		And													
35		Bs	Basalt, altered as above with minor epidote and fluorite veinlets; groundmass becomes skarn-altered beyond 40m.												
40	FLT	Bs													
	BC	And	Andeste, coarser phenos than previously, 20% plag, 1-2mm, 10% 1mm hb; blocky unit; trace py	1	0	0	0	0	0	0					

Scale 1:300

03/19/12

16:55:22

Hole Name: RD11-41															
REDFORD IRON ORE PROJECT										Hole Length: 114.63					
Segment Start Depth: 43.54										Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45	BC	And	Andeste, coarser phenos than previously, 20% plag, 1-2mm, 10% 1mm hb; blocky unit; trace py		1	0	0	0	0	0					
50	FLT	Sk	Garnet skarn with lesser mottled diopside and associated epidote; heavy iron staining at 48.8-49.1												
55		Mb													
60															
65			Marble, massive, white, coarse crystalline, with several small skarn intrusions throughout 58.34-59.20, low grade diopside/hedenbergite(?) skarn with minor gt 66-66.34, diopside skarn intrusion, minor gt 76.72-77.08, chloritized diopside skarn with marble inclusions and brecciated texture due to heavy veinlets of various alteration minerals 78.85-79.03, diopside with bright orange-pink mineral (see photo), looks like k-spar but hardness=1; vuggy zone 79.22-79.5, more of orange-pink mineral 84.33-85.1, garnet skarn with heavy chloritization 96-96.34, diopside skarn intrusion with chloritization												
70															
75															
80															
85															
Scale 1:300			03/19/12					16:55:22							

Hole Name: RD11-41																
REDFORD IRON ORE PROJECT											Hole Length: 114.63					
Segment Start Depth: 87.07											Segment End Depth: 130.61					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
90		Mb	Marble, massive, white, coarse crystalline, with several small skarn intrusions throughout 58.34-59.20, low grade diopside/hedenbergite(?) skarn with minor gt 66-66.34, diopside skarn intrusion, minor gt 76.72-77.08, chloritized diopside skarn with marble inclusions and brecciated texture due to heavy veinlets of various alteration minerals 78.85-79.03, diopside with bright orange-pink mineral (see photo), looks like k-spar but hardness=1; vuggy zone 79.22-79.5, more of orange-pink mineral 84.33-85.1, garnet skarn with heavy chloritization 96-96.34, diopside skarn intrusion with chloritization													
95		Sk										13712	97.5	98	12.8	
100					30							13713	98	99	22.7	
105	BC	Dt														
110			Epidote skarn with minor diopside and mottled magnetite up to 30%.													
115			Diorite, 35% plag, 2-3mm, 25% hb, 1-3mm, 15-20% qtz, 1-2mm; some iron staining on fracture planes, 106.9, isolated 1cm mt bleb EOH													
120																
125																
130																

Scale 1:300

03/19/12

16:55:22

Hole Name: RD11-40															
REDFORD IRON ORE PROJECT										Hole Length: 148.78					
Segment Start Depth: 0.00										Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		OB													
10		Bs	Basalt, with recrystallized zones and patches of biotite alteration; minor calcite and epidote veinlets; iron staining on fractures; minor fluorite in first 10m												
15															
20	BC														
25		And	Andesite, silicified, with plag porphyry, 1-3mm, 20%; Heavy iron staining of groundmass between 30-33m and 35.8-39 trace disseminated py												
30	BC														
35	BC FLTG FLT														
40															
Scale 1:300			03/19/12					16:55:09							

Hole Name: RD11-40																
REDFORD IRON ORE PROJECT											Hole Length: 148.78					
Segment Start Depth: 43.54											Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
45	BC	And	Andesite, silicified, with plag porphyry, 1-3mm, 20%; Heavy iron staining of groundmass between 30-33m and 35.8-39 trace disseminated py		2	0	0	0	0	0						
50	FLTG	Bs	Basalt, with heavy veinlet-sourced bleaching and skarn alteration; grades into full skarn by end of unit; iron staining on fracture planes with fluorite and epidote stringers; <1mm secondary plag phenos, 5-10%													
55	FLTG	Sk	Diopside skarn with zones of heavy garnet and associated epidote in blebs and veins; some flow banding visible in the garnet zones; minor iron staining 56.6-57.1-white qtz-rich dyke													
60	FLTG	Mb	Marble, massive, grey to white													
65	FLTG	Sk	Skarn, diopside/epidote dominant, with lesser pyroxene (hedenbergite?).													
70																
75																
80																
85																
			Marble, as above with minor epidote stringers 72.38-73.14, chloritized dyke with red non-hematite mineralization along upper contact and within dyke 77.8-78.4, 81.1-82.3, ep up to 30% within marble													

Scale 1:300

03/19/12

16:55:09

Hole Name: RD11-40																
REDFORD IRON ORE PROJECT										Hole Length: 148.78						
Segment Start Depth: 87.07										Segment End Depth: 130.61						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
90		Mb	Marble, as above with minor epidote stringers 72.38-73.14, chloritized dyke with red non-hematite mineralization along upper contact and within dyke 77.8-78.4, 81.1-82.3, ep up to 30% within marble													
95																
100																
105																
110		Mt	Magneite, massive with stringers of diopside skarn 5-10% within; 113.44-114.06, diorite intrusion with epidote stringers 115.72-116.65, diorite intrusion, as above	80							13707	113	114	20.3		
115	FLTG			75								13708	114	115	81.2	
	FLTG												13709	115	116	59.4
													13710	116	117	51
													13711	117	118	49.5
120		Dt	Diorite, 35% plag, 2-3mm, 30% qtz, 2mm, 20% hb, 1-3mm; minor iron staining on fracture planes and epidote stringers; trace diss py; rare mafic (basalt?) inclusions up to 6cm 123.3-124.75, intrusion of basalt with sharp contacts, 45 deg TCA  EOH													
125	FLTG			1	0	0	0	0	0							
130																

Scale 1:300

03/19/12

16:55:09



Hole Name: RD11-40															
REDFORD IRON ORE PROJECT										Hole Length: 148.78					
Segment Start Depth: 130.61										Segment End Depth: 174.14					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
-135		Dt	Diorite, 35% plag, 2-3mm, 30% qtz, 2mm, 20% hb, 1-3mm; minor iron staining on fracture planes and epidote stringers; trace diss py; rare mafic (basalt?) inclusions up to 6cm 123.3-124.75, intrusion of basalt with sharp contacts, 45 deg TCA  EOH												
-140				1	0	0	0	0	0						
-145															
-150															
-155															
-160															
-165															
-170															
Scale 1:300			03/19/12					16:55:09							

Hole Name: RD11-39																
REDFORD IRON ORE PROJECT											Hole Length: 136.59					
Segment Start Depth: 0.00											Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
5		OB														
10		Bs	Skarn-altered basalt, with recrystallized zones and moderate epidote veinlets; Several diorite intrusions of 20cm or less throughout 17.23-18.7, diorite dyke with mottled skarn alteration													
25	BC	Sk	Diopside skarn heavily mottled with diorite intrusion, minor epidote; heavy iron staining													
30		Mb	Marble, massive, grey-white													
35		Sk	Garnet skarn, with lesser diorite and epidote; minor marble inclusions within													
40																

Scale 1:300

03/19/12

16:54:54

Hole Name: RD11-39																
REDFORD IRON ORE PROJECT											Hole Length: 136.59					
Segment Start Depth: 43.54											Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
45		Sk	Garnet skarn, with lesser diorite and epidote; minor marble inclusions within													
		Mb	Marble, massive, as above													
50		And	Andesite, aphanitic, green skarn-altered groundmass with 1mm 15-20% phenos of replacement ep and gn													
55		Mb	Marble, as above													
60		And	Andesite, groundmass as above with 15% hb 1-3mm, 5% 1mm replacement epidote													
65	FLT	Sk	Skarn of varied composition with diopside, garnet, non-diopside pyroxene (hedenbergite?), and trace epidote; also minor marble inclusions 65.25-66.04, marble band separating unit from overlying andesite 71.76-72.33, diorite intrusion, minor fluorite													
70		Mb	Marble, as above.													
75																
80	FLTG	Mb	Marble, as above.													
85																
Scale 1:300			03/19/12					16:54:54								

Hole Name: RD11-39															
REDFORD IRON ORE PROJECT											Hole Length: 136.59				
Segment Start Depth: 87.07											Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
90		Mb	Marble, as above.												
95															
100		Sk	Diopside skarn mottled with magnetite and trace epidote, also up to 5% hematite	15	0	0	0	0	0	5	13705	101.2	102	11.6	
											13706	102	102.9	8.2	
105		Mb	Marble, massive, as above; minor epidote veinlets								13679	104.5	105	11	
	FLTG	Mt	Magnetite, massive, black, minor skarn stringers (di or ep) 116.03-118, mt heavily mottled with skarn and chlorite 120.9-121.9, silicified qt-rich volcanic dyke, very broken 121.9-122.2, chloritized fault gouge with mt	80	2	0	0	0	0	0	13680	105	106	73.6	
						85	2	0	0	0	0	13681	106	107	63.6
												13682	107	108	84.8
												13683	108	109	68
						80	2	0	0	0	0	13684	109	110	81.4
110												13685	110	111	66.6
												13686	111	112	86
												13687	112	113	82
						80	2	0	0	0	0	13688	113	114	66.4
115						90						13689	114	115	83.2
	FLTG											13690	115	116	66.6
						40						13691	116	117	27.3
												13692	117	118	31.9
												13693	118	119	78.2
120						75						13694	119	120	77.2
	FLTG									13696	120	121	77.4		
				5						13697	121	122	4		
	FLTG			15						13698	122	123	82.2		
	FLTG									13699	123	124	87.8		
125				88						13700	124	125	88.8		
										13701	125	126	83.6		
										13702	126	127	86.2		
										13703	127	128	66.8		
130	FLTG	Dt	Diorite, 30% 1-2mm plag, 25% qtz 2mm, 20% hb lathes, 1-3mm; heavy iron staining 130.79-131, silicified inclusion@ low irregular angle TCA EOH								13704	128	129	0.8	

Scale 1:300

03/19/12

16:54:54

Hole Name: RD11-39															
REDFORD IRON ORE PROJECT											Hole Length: 136.59				
Segment Start Depth: 130.61											Segment End Depth: 174.14				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
-135		Dt	Diorite, 30% 1-2mm plag, 25% qtz 2mm, 20% hb lathes, 1-3mm; heavy iron staining 130.79-131, silicified inclusion@ low irregular angle TCA EOH												
-140															
-145															
-150															
-155															
-160															
-165															
-170															
Scale 1:300			03/19/12					16:54:54							

Hole Name: RD11-38																
REDFORD IRON ORE PROJECT										Hole Length: 148.78						
Segment Start Depth: 9.15										Segment End Depth: 52.69						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
15		Bs	Basalt, with recrystallized zones and patchy biotite alteration, alteration increasing with depth 10.7-11.3, diorite intrusion Zones of low grade skarn alteration, 16.7-24.1 with pyroxene and epidote													
20	BC															
25																
30	FLTG	Mb	Marble, massive, white, coarse crystalline													
35																
40		Sk	Diopside skarn, with lesser garnet and various alteration minerals													
45		Mb	Marble, as above													
50		Sk	Diopside skarn, as above with increased diopside and decreased epidote.													
		Mb	Marble, as above 47.28-47.67, 47.83-48.1, 48.9-49.02 white silicified intrusions with trace mottled garnet													

Scale 1:300

03/19/12

16:54:33

Hole Name: RD11-38																
REDFORD IRON ORE PROJECT											Hole Length: 148.78					
Segment Start Depth: 52.69											Segment End Depth: 96.22					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
55		Mb	Marble, as above 47.28-47.67, 47.83-48.1, 48.9-49.02 white silicified intrusions with trace mottled garnet													
60		And	Andesited, aphanitic, green, bleached groundmass with 15% 1mm dessicated hb phenos, 8% 1mm plag; veinlet-sourced bleaching 63.41-64.14, intrusion with mixutre of marble and pyroxene skarn 64.14-64.34, argillic alteration of groundmass (light brown/tan)													
65		Dt														
70	BC	Mb	Skarn-altered diorite intrusion, hb replaced by di, gt and fluorite stringers with associated ep													
		Sk	Di/hb, 15%, 1-3mm, plag 35%, 2-3mm, qtz 10-15%, 1-2mm													
75		Dt	Marble, massive, as above Diopside skarn, with lesser garnet, mottled with non-diopside px (hedenbergite?)													
80	BC		Skarn-altered diorite, as above, some k-spar blemishes 74.04-75.13, mainly diopside skarn mottled with diorite													
85		Mb	Marble, massive, white, as above 76.68, 8cm skarn inclusion													
90			Magnetite, massive, black 93.3-95, marble and skarn inclusions up to 25cm 96.53-97.26, marble intrusion 98-99.14, mottle skarn within mt 99.85-103.1, increasing sulphides (py, pyr, cpy), mottled with skarn and mt													
95		Mt		80							13651	92.5	93	0.4		
				85							13652	93	94	47.9		
											13653	94	95	66.6		
											13654	95	96	39.1		
											13655	96	97	57		

Scale 1:300

03/19/12

16:54:33

Hole Name: RD11-38																
REDFORD IRON ORE PROJECT										Hole Length: 148.78						
Segment Start Depth: 96.22										Segment End Depth: 139.76						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
		Mt	Magnetite, massive, black 93.3-95, marble and skarn inclusions up to 25cm 96.53-97.26, marble intrusion 98-99.14, mottle skarn within mt 99.85-103.1, increasing sulphides (py, pyrr, cpy), mottled with skarn and mt	85							13655	96	97	57		
				80	2	0	0	0	0	0	0	13656	97	98	62.4	
				70								13657	98	99	65.6	
				55								13658	99	100	36.2	
-100				55	5	0	0	0	0	0	0	13659	100	101	25.6	
				55	12	2	5	0	0	0	0	13660	101	102	71.6	
				50	10	2	12	0	0	0	0	13661	102	103	50.8	
				5	30	15	25	0	0	0	0	13662	103	104	8.3	
-105				15								13663	104	105	14.1	
				60	1	2	2	0	0	0	0	13664	105	106	46.9	
		Mt	Low grade skarn mottled with magnetite 103.1-104.4; massive sulphides py, pyrr, cpy)								13665	106	107	46.9		
				60	1	2	2	0	0	0	0	13666	107	108	61.6	
				80								13667	108	109	62	
-110	FLTG-0			80								13668	109	110	90.8	
				75	1	0	2	0	0	0	0	13670	110	111	71.8	
				85								13671	111	112	70.6	
				85								13672	112	113	77	
				90								13673	113	114	76.2	
-115				90								13674	114	115	75.2	
				70								13675	115	116	76.6	
		Dt	Diorite, 30% plag, 2-3mm, 15-20% qtz, 2mm, 10-15% hb, 1-3mm; minor epidote veinlets; less altered than previous units, cleaner with depth. Some iron staining on fracture planes. EOH								13676	116	117	58.4		
				70								13677	117	118	48.7	
												13678	118	118.5	2.6	
-120	BC-0															
	BC-0															
-125	BC-0															
-130																
-135	BC-0															

Scale 1:300

03/19/12

16:54:33



Hole Name: RD11-38															
REDFORD IRON ORE PROJECT											Hole Length: 148.78				
Segment Start Depth: 139.76											Segment End Depth: 183.29				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
-145	BC-0	Dt	Diorite, 30% plag, 2-3mm, 15-20% qtz, 2mm, 10-15% hb, 1-3mm; minor epidote veinlets; less altered than previous units, cleaner with depth. Some iron staining on fracture planes. EOH												
-150															
-155															
-160															
-165															
-170															
-175															
-180															
Scale 1:300				03/19/12							16:54:33				

Hole Name: RD11-37															
REDFORD IRON ORE PROJECT											Hole Length: 163.41				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		OB													
10	FLT	Bs	Basalt with zones of biotite alteration and some recrystallization 9.95-10.22, Diorite dyke with clasts of basalt within up to 4cm 13.85-14.64, Qtz-rich diorite dyke with large basalt clasts within 17.65-18.05, mottled diorite and basalt, sharp fluidic contacts												
25	BC														
35	CTCF	Mb	Marble, massive, white 36.02-36.85, di/gn skarn dyke with epidote; also localized py mineralization along fracture planes	5	0	0	0	0	0	0					
40															

Scale 1:300

03/19/12

16:53:58

Hole Name: RD11-37															
REDFORD IRON ORE PROJECT											Hole Length: 163.41				
Segment Start Depth: 43.54											Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45		Mb	Marble, massive, white 36.02-36.85, di/gn skarn dyke with epidote; also localized py mineralization along fracture planes												
50		Sk	Diopside skarn, with lesser mottled garnet and associated epidote; also blotchy non-diopside pyroxene (hedenbergite?) and localized disseminatd py	5	0	0	0	0	0	0					
55		Mb													
60		Mb	Marble, massive, as above; low angle, irregular upper contact (15-45 deg TCA); minor epidote stringers 53.00-53.5, locally vuggy 63.22-63.8, skarn dyke, epidote-dominant with lesser pyroxene (diopside and hedenbergite) 70.12-70.22, 70.60-71.1, 71.85-71.93, diopside skarn dykes												
65	FLTG	Mb													
70		Mb													
75		Mb	Andesite, aphanitic grey-green groundmass with gn-altered hb lathes, 10%, 1mm; 10% ep phenos, 1mm (replacement) 84.24-84.36, marble intrusion												
80		And	Marble, white, massive, as above; minor epidote veins 97.52-98.02, skarn intrusion with hedenbergite, diopside, and garnet, gouge 100.6-101.1, skarn intrusion, as above; basal contact marked by 10cm of gouge												
85	FLTG	Mb													
Scale 1:300			03/19/12			16:53:58									

Hole Name: RD11-37																
REDFORD IRON ORE PROJECT											Hole Length: 163.41					
Segment Start Depth: 87.07											Segment End Depth: 130.61					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
90		Mb	Marble, white, massive, as above; minor epidote veins 97.52-98.02, skarn intrusion with hedenbergite, diopside, and garnet, gouge 100.6-101.1, skarn intrusion, as above; basal contact marked by 10cm of gouge													
95																
100	FLTG	Dt	Diorite, massive crystalline, 30% plag, 2-3mm; 20% qtz; 2mm; 15% hb 1-3mm; andesite/basalt inclusions up to 10cm, grading out by 123m. Disseminated py, 2-4%; more inclusions from 134-137m.													
105																
110																
115						3	0	0	0	0	0					
120																
125																
130																
Scale 1:300			03/19/12					16:53:58								

Hole Name: RD11-37														
REDFORD IRON ORE PROJECT										Hole Length: 163.41				
Segment Start Depth: 130.61										Segment End Depth: 174.14				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
135		Dt	Diorite, massive crystalline, 30% plag, 2-3mm; 20% qtz; 2mm; 15% hb 1-3mm; andesite/basalt inclusions up to 10cm, grading out by 123m. Disseminated py, 2-4%; more inclusions from 134-137m.											
140														
145		And	Andesite, aphanitic grey-green groundmass, 15% 1-3mm plag, 8% 1-2mm hb; minor calcite and qtz veinlets; disseminated py, 2-4%		3	0	0	0	0	0				
150														
155	FLTG													
160	FLTG	Dt	Diorite, as above, upper contact sharp and irregular; iron staining on fracture planes, EOH											
165														
170														
Scale 1:300			03/19/12					16:53:58						

Hole Name: RD11-36														
REDFORD IRON ORE PROJECT										Hole Length: 146.04				
Segment Start Depth: 0.00										Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
5		OB												
10			Altered basalt with biotite alteration of groundmass and calcite stringers/ veinlets. Minor associated epidote alteration and fluorite and quartz blebs throughout. Py blebs throughout 5%.											
15			18.44m, quartz vein 55 tca 18.50m, quartz vein, 1-2cm, 30 tca 20.75-21.09m intrusion of diorite, 40% qtz, 30% plag and 20% biotite. 23-28.4m, basalt becoming increasingly bleached downhole with potassic alteration from 25.78-28.26m. Bleaching is most likely an alteration halo due to potassic alteration.											
20			39.33-41m, Unit ends with faulted diorite dyke?, qtz 40%, plag 40% and dessicated biotite 20%. Core is very blocky/iron stained with areas of grind and rubble, core loss throughout.											
25	BC	Bs		5	0	0	0	0	0	0				
30			Medium to coarse grained white marble it intursion of garnet skarn mixed with magnetite.											
35			41-41.9m contact is lost due to driller error, area of ground overburden from reaming, core loss. 42.85-43m, band of magnetite (50%) mixed with garnet skarn. 44.26m, 4cm band of dendritic magnetite 30% 44.4-45m, band of magnetite (50%) mixed with garnet skarn and blebs of hematite 2%.											
40	FLTG BC	Mb												
				50							15161	42.5	43.5	8.6

Scale 1:300

03/19/12

16:53:43

Hole Name: RD11-36														
REDFORD IRON ORE PROJECT										Hole Length: 146.04				
Segment Start Depth: 43.54										Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45	BC	Mb		20	0	0	0	0	0	2	15162	44	45	24.1
				50							15163	45	46	0.7
50	BC	Sk	<p>Medium to coarse grained white marble it intursion of garnet skarn mixed with magnetite.</p> <p>41-41.9m contact is lost due to driller error, area of ground overburden from reaming, core loss.</p> <p>42.85-43m, band of magnetite (50%) mixed with garnet skarn.</p> <p>44.26m, 4cm band of dendritic magnetite 30%</p> <p>44.4-45m, band of magnetite (50%) mixed with garnet skarn and blebs of hematite 2%.</p>											
55	FLTG			<p>Skarn is garnet (90%) dominated with secondary diopside (20%) until the 48m mark, then becomes diopside dominated 75% with secondary rhodochrosite (30%) and minor epidote (10%) and calcite stringers. Rare fluorite blebs associated with epidote throughout.</p> <p>48.62m, core becomes more siliceous and bleached downhole.</p> <p>52.10-52.2m, small fault with gouge.</p> <p>58.45-61.24m, Skarn loses rhodochrosite and black pyroxene (30%) becomes present.</p> <p>61.24 -63.72m, skarn becomes garnet (85%) dominated again with areas that are mottled with diopside, epidote, fluorite and quartz. From 63-63.72m is an area of rubble due to driller error.</p> <p>Core is blocky throughout unit with areas of rubble, core loss throughout.</p>										
60														
65		Mb	<p>Same as described above with bands and stringers of green talc throughout.</p> <p>72.62-72.87m, band of dark green talc.</p> <p>75.91-76.66m, altered andesite dyke, very fine grained green groundmass with rare aphanatic plag and hb.</p> <p>76.75-78.96m, section of alteration with chaotic marble mottled with green and black? talc and large blebs of calcite.</p> <p>79.83-81.34m, intrusion of diopside (90%) skarn with minor garnet (20%), dyke ends with 5cm of talc at contact with marble.</p>											
70														
75														
80														
85														

Scale 1:300

03/19/12

16:53:43

Hole Name: RD11-36														
REDFORD IRON ORE PROJECT										Hole Length: 146.04				
Segment Start Depth: 87.07										Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
90		Mb	Same as described above with bands and stringers of green talc throughout.		1	0	0	0	0	0				
		Bs												
95		Sk	72.62-72.87m, band of dark green talc. 75.91-76.66m, altered andesite dyke, very fine grained green groundmass with rare aphanatic plag and hb. 76.75-78.96m, section of alteration with chaotic marble mottled with green and black? talc and large blebs of calcite. 79.83-81.34m, intrusion of diopside (90%) skarn with minor garnet (20%), dyke ends with 5cm of talc at contact with marble.	10							15164	97.33	97.83	1.3
100			Black fine grained groundmass with dessicated hb and rare py blebs.	20	2	2	0	0	0	0	15166	100.5	101.5	0.6
105		And	Diopside skarn (60%) with secondary garnet 20% and minor epidote/calcite stringers. Marble blebs throughout. 91.26-93.0m, Increase of garnet to 50%. 93.0-94.21m, marble intrusion. 97.44-97.6m, marble inclusion within skarn, mt (10%) precipitated along contact boundaries between skarn and marble. 100.5-101m, marble intrusion with mt (20%) bands along contacts and throughout, py stringers 2% and pyr blebs 2%.		1	0	0	0	0	0				
110		Mt	Porphyritic andesite, dark to light grey groundmass with plag (25%) phenos 1-3mm, mm hb lathes (10%) and rare py.	60							15167	109	110	39.6
											15168	110	111	13.3
											15169	111	112	21.6
											15170	112	113	36.3
											15171	113	114	5.4
											15172	114	115	8.3
											15173	115	116	58.2
											15174	116	117	66.8
											15175	117	118	77.4
											15176	118	119	34.2
120	FLT		116-118.3m, magnetite increases to 90% with a small 2cm band of pry (20%) and py 10% at 118.2m.	90	10	20	0	0	0	0				
125		Dt	Diorite with 70% plag, 20% qtz and 10% biotite with epidote stringers throughout. From 118.41 to 130.79, diorite is bleached with alteration of biotite phenos and possible dendritic hb?.											
			121.39-121.5m, fault											
			142.3-144.0m, fault, pulverized core with gouge.											
130	BC		146.04m, EOH											

Scale 1:300

03/19/12

16:53:43



Hole Name: RD11-36															
REDFORD IRON ORE PROJECT											Hole Length: 146.04				
Segment Start Depth: 130.61											Segment End Depth: 174.14				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
135	BC	Dt	Diorite with 70% plag, 20% qtz and 10% biotite with epidote stringers throughout. From 118.41 to 130.79, diorite is bleached with alteration of biotite phenos and possible dendritic hb?.												
140			121.39-121.5m, fault 142.3-144.0m, fault, pulverized core with gouge.												
145	FLTG		146.04m, EOH												
150															
155															
160															
165															
170															
Scale 1:300			03/19/12					16:53:43							

Hole Name: RD11-35															
REDFORD IRON ORE PROJECT											Hole Length: 109.94				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
		OB													
5		Sk	Diopside skarn with lesser mottled epidote; epidote in isolated veins and stringers; occasional iron staining along fracture planes												
10															
15															
20	FLT														
25	FLTG														
30															
35	FLT														
		Mt	Magnetite, massive, with minor diopside and epidote stringers	80							13951	37	38	66	
											13952	38	39	46.8	
40		Sk	Diopside skarn with lesser garnet and epidote, mottled with 25- 40% magnetite; gt increases at bottom of unit	10							13953	39	40	48.8	
				80							13954	40	41	16.5	
											13955	41	42	0.4	
		Mt	Magnetite, as above	20							13956	42	43	59.6	
											13957	43	44	83.6	

Scale 1:300

03/19/12

16:53:26

Hole Name: RD11-35																
REDFORD IRON ORE PROJECT										Hole Length: 109.94						
Segment Start Depth: 43.54										Segment End Depth: 87.07						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
45		Mt	Magnetite, as above	20							13957	43	44	83.6		
											13958	44	45	76.8		
											13959	45	46	56		
50		Sk	Diopside/garnet skarn, with minor epidote and mottled with magnetite, 30-40%	35							13960	46	47	82.6		
											13961	47	48	49.3		
		Mt	Massive magnetite with mottled di/gt skarn within; 60-85% mt; skarn appears quite fluidic, with sharp, irregular boundaries to mt. 53.5-54.4, Andesite dyke, dark grey groundmass almost aphanitic with 10% <1mm hb lathes and minor calcite veinlets 54.4-54.55, localized blebs of cpy, 1-35% 55.25-55.5, localized stringers of cpy, 3-7%	90		60							13962	48	49	12.7
													13963	49	50	7.1
													13964	50	51	77
													13965	51	52	92
													13966	52	53	73
													13967	53	54	60.6
													13968	54	55	51.4
													13969	55	56	43
55		Mt		60	0	0	4	0	0	0	13970	56	57	52.2		
											13971	57	58	68.2		
											13972	58	59	66.8		
60		Sk		70							13974	59	60	38.2		
65																
70																
75																
80																
85	FLT-G															

Scale 1:300

03/19/12

16:53:26

Hole Name: RD11-35															
REDFORD IRON ORE PROJECT											Hole Length: 109.94				
Segment Start Depth: 87.07											Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
90		Sk	<p>Skarn, initially diopside rich to 80m then grades into garnet rich; heavily silicified in diopside zone; also up to 10% silicified marble between 67-74m and up to 15% non-diopside px (hedenbergite?) between 66-68m; rhodochrosite stringers present 10-15% in diopside zone</p> <p>72.8-73m, small diorite intrusion, with 15-20% di phenos 1-2mm (replacement) along with 5% fluorite(1-3mm), 20-30% plag (1-3mm) and 20-30% qtz (1-2mm)</p> <p>Epidote increases beyond 79m (5-10%).</p> <p>91.56-92.69 Tonalite dyke, 45 deg TCA</p>												
95		Tn													
100		Sk	<p>Tonalite dyke, 40% plag, 1-3mm, 35% qtz, 1-2mm, 5-8% hb, &lt;1mm; contacts at 30 deg TCA.</p>	5											
105		Sk	<p>Skarn, mottled, diopside-rich with relatively high epidote in stringers and irregular bands, also trace fluorite</p>		5	2	0	0	0	0					
110			<p>99.69-100.35, Tonalite dyke, as above</p> <p>106.4-109.94, blocky mixture of skarn and tonalite, contact difficult to discern due to core condition.</p> <p>109.94m, EOH</p>												
115															
120															
125															
130															

Scale 1:300

03/19/12

16:53:26

Hole Name: RD11-34															
REDFORD IRON ORE PROJECT										Hole Length: 263.73					
Segment Start Depth: 0.00										Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
		OB													
5															
10															
15															
20	FLTG														
25		Sk	Diopside skarn with mottled garnet and lesser epidote; also minor fluorite blemishes and rhodochrosite stringers (up to 10%); garnet increases to 30% beyond 26m; up to 3% isolated py blebs and stringers beyond 28m. 22-24.2, zone of heavy silicification and bleaching 35.9-36.2, localized zone of mottled pyrr up to 10% 37.8-39, mottled pyrr up to 15% with assoc mottled calcite above and below zone												
30				2	0	0	0	0	0	0					
35				0	10	0	0	0	0	0					
40				1	15	0	0	0	0	0					

Scale 1:300

03/19/12

16:53:09

Hole Name: RD11-34															
REDFORD IRON ORE PROJECT										Hole Length: 263.73					
Segment Start Depth: 43.54										Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45		Sk	Diopside skarn with mottled garnet and lesser epidote; also minor fluorite blemishes and rhodochrosite stringers (up to 10%); garnet increases to 30% beyond 26m; up to 3% isolated py blebs and stringers beyond 28m.												
50		Mb	22-24.2, zone of heavy silicification and bleaching 35.9-36.2, localized zone of mottled pyrr up to 10% 37.8-39, mottled pyrr up to 15% with assoc mottled calcite above and below zone												
55	FLT	Mt	Marble, massive, white, crystalline	90							15101	55	56	12.3	
				80							15102	56	57	86.6	
				15							15103	57	58	35.9	
											15104	58	59	13.8	
60	FLTG FLT	Sk	Massive, black, slightly graphitic; diopside stringers and trace epidote, 80-90%								15105	59	60	0.7	
											15106	60	61	1.2	
											15107	61	62	1	
											15108	62	63	13.3	
				30							15109	63	64	68	
65		Mt	Garnet skarn, with lesser diopside and trace epidote; mottled texture and weak HCl reaction within groundmass; also minor magnetite mottled within, 15-30%.	70							15110	64	65	67.4	
				25							15111	65	66	54.4	
				85											
		Mb	Magnetite, massive, as above; 70-85%								15112	68	69	31.8	
			Band of di/gn skarn from 64.78-65.18 with mottled mt within at 20-80% (see mineralization tab)								15113	69	70	78.2	
70			Marble, massive, as above	85							15114	70	71	80.6	
				80							15115	71	72	58.6	
											15116	72	73	86	
											15117	73	74	85.2	
											15118	74	75	78.8	
75											15119	75	76	73.6	
											15120	76	77	60.6	
											15122	77	78	83.4	
											15123	78	79	78	
80	FLT	Mt	Magnetite, ,massive, black with minor skarn stringers, % range from 60-90%	90							15124	79	80	65.2	
			Band of diopside skarn from 68.4-68.6								15125	80	81	62.4	
			Low recovery from 77.74-80.79, faulted?								15126	81	82	79.8	
			Band of marble from 98.15-98.3								15127	82	83	75.4	
											15128	83	84	86.6	
85				60							15129	84	85	66.2	
				90							15130	85	86	76	
											15131	86	87	81.2	
	FLTG										15132	87	88	82.7	

Scale 1:300

03/19/12

16:53:09

Hole Name: RD11-34																	
REDFORD IRON ORE PROJECT										Hole Length: 263.73							
Segment Start Depth: 87.07										Segment End Depth: 130.61							
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct			
-90	FLTG-0	Mt	Magnetite, ,massive, black with minor skarn stringers, % range from 60-90% Band of diopside skarn from 68.4-68.6 Low recovery from 77.74-80.79, faulted? Band of marble from 98.15-98.3	90								15132	87	88	82.4		
				70									15133	88	89	82.6	
														15134	89	90	73.4
														15135	90	91	78.6
														15136	91	92	79.8
														15137	92	93	65.4
														15138	93	94	48.1
														15139	94	95	60.2
														15141	95	96	84.4
														15142	96	97	73
-95	BC-0	Mt		90								15143	97	98	69.6		
													15144	98	99	56.2	
														15145	99	100	27.8
														15146	102	103	5.2
														15147	103	104	55
														15148	104	105	44.6
														15149	105	106	39.5
														15150	106	107	27.9
														13601	107	108	43.9
														13602	108	109	62.6
-100	BC-0	Mb	Marble, massive, as above	65													
				65													
-105	BC-0	Mt	Magnetite, more impure than previous units with % range from 55-75%  Bands of marble at 104.3-104.55, 104.92-105.26 105.26-108, mottled with epidote and diopside, mt %=55 112.24, 12cm marble inclusion	55													
-110	BC-0	Mt		75													
-115	FLTG-0	Mb	Massive, white to grey with minor epidote stringers; also minor magnetite stringers and veins <2cm, up to 5% between 112.6-123m 126.13, 12cm magnetite inclusion, 80% 148.64-149.9, Low grade skarn intrusion with relic andesite texture and garnet-altered groundmass; up to 5% py 180-180.28, irregular andesite inclusion, dark grey groundmass with plag and minor hornblende (10-20%)	5													
-120	FLTG-0	Mb		80													
-125	FLTG-0	Mb		80													
-130	FLTG-0	Mb		80													
Scale 1:300			03/19/12					16:53:09									

Hole Name: RD11-34															
REDFORD IRON ORE PROJECT										Hole Length: 263.73					
Segment Start Depth: 130.61										Segment End Depth: 174.14					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
135		Mb													
140															
145															
150	BC			Massive, white to grey with minor epidote stringers; also minor magnetite stringers and veins <2cm, up to 5% between 112.6-123m 126.13, 12cm magnetite inclusion, 80% 148.64-149.9, Low grade skarn intrusion with relic andesite texture and garnet-altered groundmass; up to 5% py 180-180.28, irregular andesite inclusion, dark grey groundmass with plag and minor hornblende (10-20%)	5	0	0	0	0	0	0				
155															
160	FLTG														
165	FLTG														
170															
Scale 1:300				03/19/12					16:53:09						



Hole Name: RD11-34															
REDFORD IRON ORE PROJECT										Hole Length: 263.73					
Segment Start Depth: 174.14										Segment End Depth: 217.68					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
180		Mb	<p>Massive, white to grey with minor epidote stringers; also minor magnetite stringers and veins &lt;2cm, up to 5% between 112.6-123m</p> <p>126.13, 12cm magnetite inclusion, 80%</p> <p>148.64-149.9, Low grade skarn intrusion with relic andesite texture and garnet-altered groundmass; up to 5% py</p> <p>180-180.28, irregular andesite inclusion, dark grey groundmass with plag and minor hornblende (10-20%)</p>												
185															
190															
195															
200															
205															
210		And	Andesite porphyry, fine-grained dark grey-black groundmass, with 8-10% plag, 1-4mm with <1mm calcite, qtz? and hornblende (almost aphanitic); weakly reactive to HCl; pxn alteration of groundmass??												
215	FLT-5 CTCF	Mb	Massive marble, as above												
Scale 1:300				03/19/12						16:53:09					

Hole Name: RD11-34																
REDFORD IRON ORE PROJECT											Hole Length: 263.73					
Segment Start Depth: 217.68											Segment End Depth: 261.22					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
220		Mb	Massive marble, as above													
225			Andesite porphyry, irregular, low grade biotite alteration of aphanitic groundmass (purple-brown, mottled); 1-5mm calcite phenos (replacement?) 10-15%, 5-8% hb?; dessicated phenos													
230	BC	And	Marble, massive, as above. 235.85, 2cm impure magnetite vein, perpendicular TCA 235.97-236.14, magnetite band, 90% 236.63, 2.5cm mt vein, 45 deg TCA Basal contact grades into mt from 236.77-237m													
235		Mb														
240	BC	Mt	Magnetite, mottled with various, including marble, py and ep; moderate epidote stringers 238.3-239.07, Impure zone, mt (35%) mottled with marble; becomes massive beyond, to 243.25 243.25-245, mottled with ep and various alteration minerals; mt quite coarse crystalline (up to 3mm) 245-248.48, mt mottled with massive py, up to 50% with lesser cpy 4-8% in localized zones; also significant yellowish ep along fracture planes 248.48-249.1, mt massive to end of unit (90%)	25							13609	235.5	236	5		
				85									13610	236	237	22.3
				65									13611	237	238	70.8
				35									13612	238	239	45.7
				85									13613	239	240	79.8
				65									13614	240	241	90.2
				85									13615	241	242	87.6
				65									13616	242	243	90
				50									13617	243	244	77.8
				90									13618	244	245	62.8
245											13619	245	246	41		
											13620	246	247	54.4		
					36	0	4	0	0	0	13621	247	248	42.2		
	BC										13622	248	249	74.2		
											13623	249	250	19.7		
											13624	250	251	14.7		
											13626	251	252	39.5		
											13627	252	253	14.4		
											13628	253	254	8.1		
											13629	254	255	0.5		
250		Sk	Skarn, initially diopside-rich to 250.1 mottled with mt, becomes garnet-rich beyond. 250.1-253.2 garnet rich skarn with mottled diopside and mt (10-45%) 258.5-260, isolated, mottled blebs of mt within garnet/diopside skarn and minor ep Garnet skarn beyond 260m to EOH.	45												
				10												
				20												
				90												
				20												
				45												
				10												
				5												
				5									13630	258.5	259.25	8.7
260													13631	259.25	260	1

Scale 1:300

03/19/12

16:53:09

Hole Name: RD11-34															
REDFORD IRON ORE PROJECT											Hole Length: 263.73				
Segment Start Depth: 261.22											Segment End Depth: 304.75				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
		Sk	Skarn, initially diopside-rich to 250.1 mottled with mt, becomes garnet-rich beyond. 250.1-253.2 garnet rich skarn with mottled diopside and mt (10-45%) 258.5-260, isolated, mottled blebs of mt within garnet/diopside skarn and minor ep Garnet skarn beyond 260m to EOH.												
-265															
-270															
-275															
-280															
-285															
-290															
-295															
-300															
Scale 1:300			03/19/12						16:53:09						

Hole Name: RD11-32																
REDFORD IRON ORE PROJECT											Hole Length: 194.51					
Segment Start Depth: 0.00											Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
5		OB	Porphyritic andesite, light to medium grey with dessicated plag (20%) 1-4mm and rare aphanitic hb 5%. Rare calcite veinlets at random orientation. Py (20%) throughout, cubic 1-2mm and as veins at 50tca.													
		And	Altered basalt with groundmass varying from black to medium grey. Biotite alteration gives groundmass a muddy brown color in some areas. Calcite veining with epidote alteration. Cubic disseminated py 5%.	20	0	0	0	0	0	0						
10			14.43-14.68m, basalt becomes bleached and silicified with increase biotite alteration, anchorite is present 5% with calcite veins 50 tca. Py disseminated and along veins 5% until 19.88m.													
			16.77-17.68m, bleached basalt same as above with flow banding and calcite veins 60 tca.													
15			19.88-29.88 Low grade alteration/deformation within basalt becoming bleached grey with biotite alteration giving some areas a purple tinge, flow texture as well as flow breccia in some areas. Basalt takes on skarn like texture. Calcite veins, stringers as well as blebs throughout and along fracture planes. Py cubic and disseminated 25% until 24.48, the trace 2%.	5	0	0	0	0	0	0						
20			20.9m, fracture with brown clay gouge.													
			28.87m, 2.5cm vein of calcite 60 tca.													
			34.84 to end of unit, altered basalt with alternating areas of bleached basalt with skarn like texture same as above.													
25		Bs	Diopside (50%) mottled with trichoclite (20%) and calcite stringers with minor epidote (2%) alteration. Skarn has been silicified and bleached. After the 42m black pyroxene? blebs and stringers within core. Basal contact with above lying basalt.	25	0	0	0	0	0	0						
			Altered basalt same as above with alternating areas of bleaching and diopside alteration of goundmass? Calcite stringers and veins at random orientation.	1	0	0	0	0	0	0						
30			42.97-43.1m, py (10%) cubic and disseminated, marcasite along fracture planes 15%.													
			44-45.45m, py 10% as blebs in core.													
			45.45-61.76m, rare py dissminated or rare veinlet.													
			50-51.30m, grind with core loss.													
35			51.5-53.7m, bleached altered basalt with skarn like texture and poss diopside alteration of groundmass. Alternates with small patches of biotite altered basalt.	5	0	0	0	0	0	0						
			61.4-61.78m, band of low grade deformation, flow breccia with poss argillite? (very fine grained, beige in color, soft) and calcite. Py stringers and blebs 10%.													
40		Sk	64.75 to end of unit, core becomes silicified. Calcite veins with epidote alteration halos, 50 tca. 71m on, increase biotite alteration of groundmass and bleaching, after 72m 40cm band of skarn like texture with diopside alteration.													
		Bs	Core is blocky throughout unit.	10	0	0	0	0	0	0						

Scale 1:300

03/19/12

16:52:25

Hole Name: RD11-32														
REDFORD IRON ORE PROJECT										Hole Length: 194.51				
Segment Start Depth: 43.54										Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45		Bs	Altered basalt same as above with alternating areas of bleaching and diopside alteration of groundmass? Calcite stringers and veins at random orientation.		10	0	0	0	0	0				
50			42.97-43.1m, py (10%) cubic and disseminated, marcasite along fracture planes 15%. 44-45.45m, py 10% as blebs in core. 45.45-61.76m, rare py dissminated or rare veinlet. 50-51.30m, grind with core loss.											
55			51.5-53.7m, bleached altered basalt with skarn like texture and poss diopside alteration of groundmass. Alternates with small patches of biotite altered basalt.	1	0	0	0	0	0	0				
60			61.4-61.78m, band of low grade deformation, flow breccia with poss argillite? (very fine grained, beige in color, soft) and calcite. Py stringers and blebs 10%. 64.75 to end of unit, core becomes silicified. Calcite veins with epidote alteration halos, 50 tca. 71m on, increase biotite alteration of groundmass and bleaching, after 72m 40cm band of skarn like texture with diopside alteration.											
65			Core is blocky throughout unit.		10	0	0	0	0	0				
70			Altered silicified tonalite with diopside and pyroxene stringers and blebs. Plag (40), qtz (50) and anchorite (10). Calcite veinlets throughout as well as blebs.											
75			Highly deformed pyroxene skarn, mottled texture with rhodochrosite (15%), garnet (15%), calcite blebs and stringers throughout with minor epidote alteration.. Flow banded and flow breccia in some areas. Py disseminated throughout, as stringers and as large cubic clusters (20%).											
80	60 CTC	Tn	Massive magnetite mottled with diopside and white alteration mineral and is capped with 10cm of marble with py(15%) in angular contact with above lying skarn 60 tca.											
		Sk			20	0	0	0	0	0				
		Mt	80.13-84m, Unit starts with 95% Mt with py (15%) veins at 60 tca as well as along fracture planes.	95	15	0	0	0	0	0	16551	80	81	72.2
			84-84.66m, Andesite dyke, with grey groundmass, dessciated plag phenos (20%) and aphanitic hb phenos (5%). Calcite veins/veinlets at random orientation. Rare disseminated py.								16552	81	82	84.2
			84.66-87.95m, increase in alteration minerals, Mt 60%. some intrusion os garnet skarn mixed with Mt.								16553	82	83	84.8
											16554	83	84	75.6
											16556	84	85	35.3
85				60							16557	85	86	29.5
											16558	86	87	51.2
											16560	87	88	37.2

Scale 1:300

03/19/12

16:52:25

Hole Name: RD11-32																	
REDFORD IRON ORE PROJECT										Hole Length: 194.51							
Segment Start Depth: 87.07										Segment End Depth: 130.61							
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct			
90		Mt	Massive magnetite mottled with diopside and white alteration mineral and is capped with 10cm of marble with py(15%) in angular contact with above lying skarn 60 tca.	60							16559	87	88	37.2			
		And										16560	89	90	48.6		
95	BC	Mt	80.13-84m, Unit starts with 95% Mt with py (15%) veins at 60 tca as well as along fracture planes. 84-84.66m, Andesite dyke, with grey groundmass, desiccated plag phenos (20%) and aphanitic hb phenos (5%). Calcite veins/veinlets at random orientation. Rare disseminated py. 84.66-87.95m, increase in alteration minerals, Mt 60%, some intrusion os garnet skarn mixed with Mt. Impure magnetite (20%) desiccated diopside and some calcite alteration.	80								16561	90	91	72.2		
													16562	91	92	70.4	
														16563	92	93	72
														16564	93	94	77.8
														16565	94	95	81
														16566	95	96	79.6
														16567	96	97	65.4
														16568	97	98	80
														16569	98	99	87.4
														16570	99	100	85.2
100	BC	Sk	Garnet skarn mottled with diopside and patches of magnetite. Calcite stringers throughout and marcasite blebs (10%) along fracture planes.	10							16571	100	101	48.3			
											16572	101	102	9.9			
105		Mt	Impure magnetite same as above ranging from 75% purity until 107.1m, then 85% until end of unit. Minor graphite (10%) throughout. Calcite with serpentinization along fracture planes. 107.1m to end of unit, epidote also becomes present within core. 109.93-110.52m, hematite along fracture planes 15%, py 2% Andesite dyke, same as above with increase in calcite phenos 15%.	75								16573	102	103	22.8		
													16574	103	104	50.6	
														16576	104	105	48.2
														16577	105	106	70.4
														16578	106	107	74.4
														16579	107	108	59.4
														16580	108	109	74.8
														16581	109	110	72.4
110		And	113.1 to end of unit, Mt (15%) becomes mixed within andesite, chloritized and serpentinized along fracture planes with calcite and py in blebs 5%. Slick n slides show movement along fracture planes, possibly distal to fault plane? some gouge at bleached diopside and hedenbergite	85	0	0	0	0	0	0	15	16582	110	111	72		
													16583	111	112	0.4	
115		Mt	Impure magnetite zone (40%) with majority of core being altered andesite dyke with green groundmass, plag phenos 1-2 mm (25%), calcite veining with epidote alteration and minor rhodochrosite in some areas.	15	5	0	0	0	0	0	0	16584	113	114	27.6		
													16585	114	115	29	
120	BC	And	124-124.39m, py 3%, disseminated. 124.86-125.3m, band of impure Mt (15%) mottled with diopside and hedenbergite alteration.	40							16586	116	117	5			
125	FLTG	Bs	Altered basalt, black groundmass with some biotite alteration, calcite veining with epidote alteration and plag phenos 1-2mm act as halos around veins and give core a porphyritic texture. Py as blebs along fracture planes 10%. 125-129.38m, fault with gouge, pulvurized and broken core. 134.3-135m, faulted band of impure magnetite (20%) mixed with diopside and hedenbergite alteration.	15	3	0	0	0	0	0	0						
130	BC	Bs	Core is blocky and rubbly with areas of grinding, core loss throughout		10	0	0	0	0	0							

Scale 1:300

03/19/12

16:52:25

Hole Name: RD11-32																
REDFORD IRON ORE PROJECT										Hole Length: 194.51						
Segment Start Depth: 130.61										Segment End Depth: 174.14						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
135	BC	Bs	Altered basalt, black groundmass with some biotite alteration, calcite veining with epidote alteration and plag phenos 1-2mm act as halos around veins and give core a porphyritic texture. Py as blebs along fracture planes 10%.		10	0	0	0	0	0						
	FLTG			20								16587	134	135	13.8	
140	BC	And	125-129.38m, fault with gouge, pulverized and broken core. 134.3-135m, faulted band of impure magnetite (20%) mixed with diopside and hedenbergite alteration.  Core is blocky and rubbly with areas of grinding, core loss throughout.													
	FLTG				25								16588	137	138	15.2
145			Andesite with light grey groundmass with dessicated plag (15%) and aphanitic hb (5%) phenos, rare trace py throughout. Chlorite and calcite along fracture planes and rare calcite veinlets.													
150		Mt	137-137.66m, faulted magnetite intrusion, Mt (25%) is impure with diopside alteration and calcite. Core is pulverized with gouge.  Core is blocky with core loss.	80	5	0	0	0	0	0		16589	148	149	43.3	
												16590	149	150	58.4	
													16591	150	151	8.2
													16592	151	152	1.6
													16593	152	153	4.3
													16594	153	154	8.4
155	BC	And	148.21-150.12m, Mt (80%) with py blebs 5% and along contact with dyke 150.12-151.4m, andesite dyke, same as above. 151.4-153.71m, increase in diopside and minor epidote and hedenbergite, Mt (40%).													
160		Sk	Andesite, same as described above with groundmass varying from light to dark grey. Core is blocky with core loss.		5	0	0	0	0	0						
165		Mt	Garnet skarn with minor epidote and pyroxene, calcite veinlets throughout.  159.1-159.4m, thick calcite veins (30 tca), up to 3 cm in width rimmed with black pyroxene?and disseminated py (5%).  Garnet skarn grades into impure magnetite (75%) mottled with diopside and epidote. Patches of garnet skarn throughout unit mixed with magnetite. Py as blebs throughout (10%) increasing to 20% from 167.57-167.84m. Chloritized and serpentinized along fracture planes with calcite.									16596	161	162	17.3	
													16597	162	163	25.9
													16598	163	164	9.2
													16599	164	165	24.8
													16600	165	166	17.4
													15151	166	167	14.3
													15152	167	168	16.6
													15153	168	169	32.2
													15154	169	170	22.5
													15155	170	171	17.2
170			174-174.68m, fault, broken and pulverized core with gouge.	75	10	0	0	0	0	0		15156	171	172	22.9	
												15157	172	173	31.1	
												15158	173	174	30.8	
												15159	174	175	12.8	

Scale 1:300

03/19/12

16:52:25

Hole Name: RD11-32														
REDFORD IRON ORE PROJECT										Hole Length: 194.51				
Segment Start Depth: 174.14										Segment End Depth: 217.68				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
	FLIG	Mt		75	10	0	0	0	0	0	15159	174	175	12.5
											15160	175	176	2.5
-180			Garnet skarn grades into impure magnetite (75%) mottled with diopside and epidote. Patches of garnet skarn throughout unit mixed with magnetite. Py as blebs throughout (10%) increasing to 20% from 167.57-167.84m. Chloritized and serpentized along fracture planes with calcite.											
-185	BC	And	174-174.68m, fault, broken and pulverized core with gouge.											
-190			Andesite, light grey to dark grey groundmass, with dessicated plag (25%) and hb (15%). Calcite veins and veinlets throughout at random orientation.											
			Core is blocky with some core loss.											
-195			194.51 FOH.											
-200														
-205														
-210														
-215														
Scale 1:300			03/19/12					16:52:25						



Hole Name: RD11-33															
REDFORD IRON ORE PROJECT											Hole Length: 69.82				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		OB	<p>Flow banded to mottled diopside - garnet skarn with varying % of epidote, rhodochrosite, fluorite as below            3.66 - 9.68m: Siliceous bleached diopside skarn with 10% garnet, common epidote and calcite veinlets with associated fluorite and light pink rhodochrosite, dark green to grey fine grained altered basalt from 5.66 - 6.65            9.68 - 9.97m: Siliceous garnet skarn mottled with light pink bleached garnet (?) or rhodochrosite (?)            9.97 - 10.37m: Diopside skarn as above            10.37 - 10.85m: Garnet skarn with 10% diopside, rare epidote veinlets            10.85 - 12.80m: Diopside skarn as above, increasingly bleached towards base            12.80 - 13.29m: Bleached garnet skarn as above            13.29 - 21.52m: Diopside skarn as above, rare marcasite, silicified from 20.10 -20.22 and 20.64 -20.98, abundant calcite and epidote veins from 20.29 - 21.58            21.52 - 22.34m: Very siliceous light green diopside skarn, with grey bands of chert (?) very hard, lacking in garnet, magnetite band from 21.84-21.90 with associated pyrrhotite, 2% scattered pyrite and marcasite along fractures            22.34 - 25.47m: Garnet (85%) skarn mottled with 10% diopside, rare epidote and fluorite with marcasite along veinlets, rare pyrrhotite</p>												
10		Sk													
15		Sk													
20		Sk													
25		And	<p>Grey medium grained porphyritic andesite, phenos include 15% 1-4mm plag, 1% calcite, 2% reddish-brown altered biotite, abundant quartz and 5% amphibole, rare disseminated pyrite.</p>	40	0	0	0	0	0	0	15075	21	22	1.2	
30		And	<p>Garnet and diopside skarn as below            36.04 - 53.94m: Mottled garnet skarn with 10-25% diopside (decreases towards base of zone), rare epidote, calcite and rhodochrosite veinlets with associated marcasite, rubbly fault zone from 41.30 - 42.48 and gouggy brecciated from 45.00 - 45.33, rubbly from 48.48 - 50.72, patchy and vuggy magnetite (20%) zone from 50.72 - 50.92            53.94 - 58.60m: Banded diopside skarn with occasional relict porphyritic andesite textures, 5% garnet mottled throughout, common calcite veins and veinlets along core axis, occasional pink rhodochrosite and epidote veins with very rare fluorite, red hematite staining (?) along veinlets            58.60 - 63.35m: Silicified mottled diopside (85%) skarn with common relict porphyritic andesite textures, or possible recrystallization, veinlets as above, light pink rhodochrosite phenos and in groundmass (could also be hematite staining?), pyrite staining throughout, diorite from 62.30 - 62.42</p>	1	0	0	0	0	0						
35		And													
40	FLTG	Sk													

Scale 1:300

03/19/12

16:52:42

Hole Name: RD11-33															
REDFORD IRON ORE PROJECT											Hole Length: 69.82				
Segment Start Depth: 43.54											Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45	FLTG	Sk	Garnet and diopside skarn as below 36.04 - 53.94m: Mottled garnet skarn with 10-25% diopside (decreases towards base of zone), rare epidote, calcite and rhodochrosite veinlets with associated marcasite, rubbly fault zone from 41.30 - 42.48 and gougy brecciated from 45.00 - 45.33, rubbly from 48.48 - 50.72, patchy and vuggy magnetite (20%) zone from 50.72 - 50.92 53.94 - 58.60m: Banded diopside skarn with occasional relict porphyritic andesite textures, 5% garnet mottled throughout, common calcite veins and veinlets along core axis, occasional pink rhodochrosite and epidote veins with very rare fluorite, red hematite staining (?) along veinlets 58.60 - 63.35m: Silicified mottled diopside (85%) skarn with common relict porphyritic andesite textures, or possible recrystallization, veinlets as above, light pink rhodochrosite phenos and in groundmass (could also be hematite staining?), pyrite staining throughout, diorite from 62.30 - 62.42	20											
50	BC			15077	50	51	0.5								
55		And													
60				1	0	0	0	0	0	0					
65	BC			1	0	0	0.5	0	0						
70															
75			Grey porphyritic andesite as above with rare pyrite, arsenopyrite and occasional marcasite, occasional hematite staining of groundmass from 69.21 to 69.82 and rare hematite throughout rest, occasional calcite veinlets. EOH												
80															
85															

Scale 1:300

03/19/12

16:52:42

Hole Name: RD11-31																
REDFORD IRON ORE PROJECT											Hole Length: 155.02					
Segment Start Depth: 0.00											Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
5		OB	Altered basalt fine grained black groundmass with biotite alteration in some areas and calcite veins at 40tca with minor epidote alteration. Py cubic, disseminated throughout and along fracture planes 5%.													
10		Bs	8.57-9m, area of highly altered bleached basalt with 8cm of brecciation with calcite infilling as well as along fracture planes. Py disseminated throughout and along veinlets 10%. 12.13-13.9m, bleached, altered basalt, with epidote and fluorite alteration as well as areas of brecciation. Py along veins/veinlets and disseminated throughout 15%. 21.71-23.2m, Bleached altered basalt, same as described above.	5	0	0	0	0	0	0						
15		Bs	Andesite with light grey fine grained groundmass, dessicated plag (30%) and hb (15%) phenos as well as calcite phenos (10%) 2-3mm in size. Calcite veins/veinlets throughout at random orientation. 23.2-25.42m, Py disseminated 20%, apy along veins 5%.	10	0	0	0	0	0	0						
20		Bs	Altered basalt, same as described above, highly silicious with calcite veinlets at random orientation. Apy along veinlets and as blebs in core, 5%, marcasite along fracture planes 5%. 28.59, calcite veins, 30tca.	5	0	0	0	0	0	0						
25		And	Andesite, same as described above with calcite veins, 45 tca and py disseminated throughout as cubes and as blebs 15%.	20	0	0	5	0	0	0						
30		Bs	30.22-30.65m, intrusion of altered basalt with bleaching of the last 10cm. Altered basalt, black groundmass, highly silicious with calcite veining 35 tca and veinlets at random orientation, minor epidote alteration associated with calcite veins/veinlets. Marcasite along fracture planes 7%, py disseminated throughout 2%.	0	0	0	5	0	0	0						
35		And	36.95-38.33m, basalt becomes bleached and highly altered Py 10%, apy 5%. 37-37.5m, fault with gouge. 39m to end of unit, basalt starts to take on skarn like texture with increase in epidote alteration, core is still highly silicious, py increases along veins 10%	15	0	0	0	0	0	0						
40	FLTG-0	Bs	Andesite, same as described above with large calcite (10%) phenos 2-5mm. Rare cubic py throughout.	10	0	0	5	0	0	0						
		And	Pyroxene (40%), diopside (30%) skarn with some rhodochrosite (15%) throughout, calcite veinlets at random orientation with minor epidote alteration. Py disseminated throughout 2%.	2	0	0	0	0	0	0						
		Sk		10	0	0	0	0	0	0						
				1	0	0	0	0	0	0						
				2	0	0	0	0	0	0						

Scale 1:300

03/19/12

16:50:35

Hole Name: RD11-31																
REDFORD IRON ORE PROJECT											Hole Length: 155.02					
Segment Start Depth: 43.54											Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
45		Sk	Pyroxene (40%), diopside (30%) skarn with some rhodochrosite (15%) throughout, calcite veinlets at random orientation with minor epidote alteration. Py disseminated throughout 2%.		2	0	0	0	0	0						
		And			2	0	0	0	0	0						
50		Sk	Andesite with very fine grained grey groundmass, highly siliceous and dessicated plag (35%) and hb (15%) phenos with calcite alteration and calcite along fracture planes. Py rare, cubic and disseminated 2%.													
55			Diopside (75%) skarn mottled with garnet (20%) and occasional rhodochrosite (5%). Calcite stringers throughout with minor associated epidote alteration in some areas. Marcasite along fracture planes and veinlets 15%.													
60			46.9-52.25m, skarn is a mix of black pyroxene and diopside with calcite veins throughout. Starting at 48.57m to 52.25m, skarn has some relict tonalite texture mottle with light green diopside and aphanitic black pyroxene as well as anchorite. 49.17m, cpy along fracture plane 5%.	2	3	0	0	0	0							
65			57.9-60m, Bleached rhodochrosite ( 60%) becomes dominate within skarn, 59-59.25m intrusion of altered andesite? Dark grey to black fine grained groundmass with aphanitic phenos, calcite veinlets 45 tca. Py 2% with alteration halos and pyr 3% along contact with skarn.													
70			63.12-67.13m, Fractures running almost parallel tca throughout core are vuggy and infilled with calcite and green diopside/clay gouge. Some breccia also occurs along the fractures.													
75			75.6-78.1m, fault with pulverized/broken core and gouge. Some core loss.													
80	FLTG		79-82.2m, Skarn becomes garnet (90%) dominated with some diopside (10%) and minor epidote and fluorite alteration.													
85			89.41-91.85m, Andesite becomes increasingly altered with groundmass becoming light grey with low grade deformation. 90.86-91.8m, core becomes bleached almost taking on a tonalite texture with increase in plag pheno (40%) and anchorite becoming present in core, 90.61m 10cm band of brecca with calcite infilling. Py increases throughout to 20%.	10	0	0	0	0	0	0						

Scale 1:300

03/19/12

16:50:35

Hole Name: RD11-31															
REDFORD IRON ORE PROJECT										Hole Length: 155.02					
Segment Start Depth: 87.07										Segment End Depth: 130.61					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
90		And	Altered andesite, with light green fine grained groundmass grading to dark-medium grey. Plag (40%) phenos 1-3mm in size throughout and as alteration halos along calcite veins. Calcite veins/veinlets 30 tca with epidote alteration. Py blebs throughout 10%.		10	0	0	0	0	0					
					20	0	0	0	0	0					
95			89.41-91.85m, Andesite becomes increasingly altered with groundmass becoming light grey with low grade deformation. 90.86-91.8m, core becomes bleached almost taking on a tonalite texture with increase in plag pheno (40%) and anchorite becoming present in core, 90.61m 10cm band of brecca with calcite infilling. Py increases throughout to 20%.												
100		Sk	Diopside (60%) dominated skarn with minor rhodochrosite (10%) blebs, calcite veining at 50 tca. Skarn is highly silicious becoming more bleached down hole.												
105			98-104.0m, skarn is bleached white with black pyroxene? infilling fracture areas and areas of breccia. 102.96-105m, intrusion of altered basalt with biotite alteration of groundmass. Py 2% as blebs 105.39m, 3cm of breccia. 106.3m, 10cm py 2%, pyr 5% along broken veinlets and as blebs.		2	0	0	0	0	0					
					2	5	0	0	0	0					
110			Altered porphyritic andesite, grey groundmass with plag (20%) phenos 2-5mm in size and disseminated hb phenos (25%). Calcite veining and stringers at random orientation have minor epidote alteration. Apy disseminated and as blebs throughout core 5%, py 2%.												
115		And	Silicious diopside (70%) skarn mottled with rhodochrosite (20%) and minor calcite veinlets at random orientation. Chloritized and serpentinized along fracture planes. Uneven contact with above andesite.		2	0	0	5	0	0					
120			127-134.7m, Skarn becoming increasingly bleached, 134.58, 10cm band of marble. 134.7-138.75m faulted dyke of altered basalt with calcite veining and minor epidote alteration. Core is broken/pulverized with gouge. 141.56-142m, faulted mafic intrusion, dark fine grained groundmass with calcite stringers. Py disseminated throughout 5%. Core is pulverized with gouge.												
125			142-149.9m, Diopside (80%) skarn with garnet (20%), minor calcite veins/veinlets at random orientation and as blebs in core. Core is less silicious. Minor epidote. Rare py throughout 2%.												
130		Sk	Core is blocky.												

Scale 1:300

03/19/12

16:50:35

Hole Name: RD11-31															
REDFORD IRON ORE PROJECT										Hole Length: 155.02					
Segment Start Depth: 130.61										Segment End Depth: 174.14					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
135	FLTG	Sk	Silious diopside (70%) skarn mottled with rhodochrosite (20%) and minor calcite veinlets at random orientation. Chloritized and serpentinized along fracture planes. Uneven contact with above andesite.												
140	FLTG		127-134.7m, Skarn becoming increasingly bleached, 134.58, 10cm band of marble. 134.7-138.75m faulted dyke of altered basalt with calcite veining and minor epidote alteration. Core is broken/pulverized with gouge.	5	0	0	0	0	0	0					
145			141.56-142m, faulted mafic intrusion, dark fine grained groundmass with calcite stringers. Py disseminated throughout 5%. Core is pulverized with gouge. 142-149.9m, Diopside (80%) skarn with garnet (20%), minor calcite veins/veinlets at random orientation and as blebs in core. Core is less silious.Minor epidote. Rare py throughout 2%.	2	0	0	0	0	0	0					
150	FLT	And	Core is blocky.	5	0	0	0	0	0	0					
155			Altered porphyritic andesite with groundmass varying from gre												
160			152.05-153.22m, Fault, broken/pulverized core. Core is blocky.												
165			155.02m EOH												
170															

Scale 1:300

03/19/12

16:50:36

Hole Name: RD11-30														
REDFORD IRON ORE PROJECT										Hole Length: 157.93				
Segment Start Depth: 0.00										Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
5		OB												
10	FLTG	Sk		1	0	1	0	0	0	0				
15		Sk	Silicified green diopside skarn, flow banded to mottled with 5% fluorite, 10% epidote, 3% rhodochrosite, 5% garnet commonly associated with calcite veinlets throughout, substantially more silicified from 7.06 - 17.88m and 22.72 - 27.12, rare marcasite, cpy and pyrite	0	0	0	0	0	0	5				
20		Sk	8.74 - 8.79m: gouge 10.75 - 12.40m: highly fractured oxidized zone, 5% hematite 15.83 - 16.20m: highly oxidized zone 17.88 - 18.05m: garnet (65%) rich zone with diopside 22.30 - 22.72m: garnet (75%) zone as above 30.78 - 31.70m: Very fine grained dark grey basalt dyke with 2% pyrite 32.84 - 32.96m: marble											
25		Sk												
30		Sk		2	0	0	0	0	0	0				
35		Mb	coarse crystalline grey marble.											
37		Mt	Mottled magnetite with garnet skarn, 2% pyrrhotite and pyrite								15067	36.5	37	6.4
38		Mt	36.95 - 37.33m: fine grained black basalt dyke	65	2	2	0	0	0	0	15068	37	38	41.9
39		Mt									15069	38	39	27.6
40		Sk	Garnet-diopside skarn, 2% pyrrhotite and magnetite from 41.85 - 43.28.											
41		Mt	Magnetite mottled with garnet skarn, 5% diopside, 3% pyrrhotite.	2	0	2	0	0	0	0	15070	41.5	42	1
42		Mt		65	0	3	0	0	0	0	15071	42	43	1.8
43		Mt									15072	43	44	47.8

Scale 1:300

03/19/12

16:50:17

Hole Name: RD11-30														
REDFORD IRON ORE PROJECT										Hole Length: 157.93				
Segment Start Depth: 43.54										Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45		Mt	Magnetite mottled with garnet skarn, 5% diopside, 3% pyrrhotite.	65	0	3	0	0	0	0	15072	43.44	44.44	47.8
					1	0	0	0	0	0	15073	44.44	45.44	16.5
50			Diopside, garnet and pyroxene skarns as below											
55			44.21 - 49.58m: 75% garnet mottled with 15% diopside, 5% epidote with associated rare fluorite and marcasite, rare pyrite disseminated throughout											
			49.58 - 53.77m: 70% diopside mottled with 5% garnet, 5% epidote with associate fluorite (2%) and light pink rhodochrosite (2%), occasional calcite veinlets and veins, silicified from 51.90 - 53.40, dark grey altered basalt (?) from 53.40 - 53.77		0	2	0	0	0	0				
60			53.77 - 60.15m: 50% pyroxene, 35% diopside, 5% epidote, siliceous, relict andesite or possibly recrystallized basalt textures, abundant 1-2mm pyroxene phenos, brown altered biotite common throughout groundmass, 2% pyrrhotite throughout, occasional calcite veinlets and quartz veins from 55.28 - 55.44, possible rare hematite											
65		Sk	60.15 - 64.05m: silicified 65% diopside mottled with 15% light pink rhodochrosite (?), occasional calcite veinlets, rare fluorite and epidote. Silicified diopside groundmass and darker green diopside within veins and veinlets		0	2	0	0	0	0				
			64.05 - 65.74m: pyroxene skarn as above, contact with above diopside gradational											
70			65.74 - 77.55m: 7cm qtz vein at contact, diopside skarn as above at 60.15m, gougy sandy - rubbly oxidized faulted zone from 76.15 - 76.80, iron staining and fracturing continues to 77.36m											
			77.55 - 82.00m: garnet skarn as above, 2% pyrrhotite, 1% apy, 1% pyrite from 81.35 - 82.00											
75	FLTG		82.00 - 82.79m: Diopside (50%) - garnet (35%) skarn, 5% epidote and calcite veinlets with associated fluorite											
			82.79 - 84.69m: Garnet skarn as above with 5% epidote											
80	BC				1	2	0	1	0	0				
85	FLTG	And	Grey porphyritic andesite with 1-3mm anhedral plag phenos, occasional calcite veinlets with associated marcasite, faulted zone for the entire interval, very rubbly with gouge and abundant dark grey soft clay from 89.06 - 89.40, rare pyrite throughout		1	0	0	0	0	0				

Scale 1:300

03/19/12

16:50:17



Hole Name: RD11-30															
REDFORD IRON ORE PROJECT											Hole Length: 157.93				
Segment Start Depth: 87.07											Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
90	FLTG	And	Grey porphyritic andesite with 1-3mm anhedral plag phenos, occasional calcite veinlets with associated marcasite, faulted zone for the entire interval, very rubbly with gouge and abundant dark grey soft clay from 89.06 - 89.40, rare pyrite throughout		1	0	0	0	0	0					
95			Garnet - diopside skarn as below. 89.40 - 91.13m: Garnet (90%) skarn with 5% diopside, rare epidote and pyrite 91.13 - 92.80m: Mottled diopside (45%) - garnet (40%) skarn, 5% epidote with associated rare fluorite and pink rhodochrosite, occasional calcite veinlets and rare pyrite throughout												
100	BC		92.80 - 102.30m: Garnet (65%) -diopside (25%) skarn, 2-3% epidote and calcite veinlets with rare marcasite, rare pyrite 102.30 - 105.91m: Mottled diopside skarn as above, 25% epidote rich vein from 105.32 - 105.55, highly fractured with 2-3% pyrite and marcasite from 104.41 - 105.75.	1		0	0	0	0	0					
105	BC	Sk	105.91 - 109.04m: Garnet skarn as above, rare fluorite associated with epidote, abundant epidote veining from 107.60 -107.80 with slickensides 109.04 - 112.45m: Diopside skarn much cleaner/massive than above, 85% diopside, 10% garnet, rare calcite veinlets, rare marcasite, fluorite and rhodochrosite, abundant calcite veining from 112.00 - 112.45												
110			112.45 - 119.00m: Pyroxene - diopside skarn, 15% epidote, 5% garnet, red-brown biotite alteration throughout groundmass, rare fluorite associated with epidote, 1% magnetite from 118.19 - 118.39, 3% pyrrhotite and rare pyrite throughout.												
115	BC			1	3	0	0	0	0	0					
120	BC	And	Grey coarse crystalline porphyritic andesite, occasional anhedral 1-3mm plag and 1mm euhedral amphibole and px phenos, rare calcite veinlets with associated pyrite.								15074	118	119	1.2	
125		Sk	Diopside - garnet skarn with 10% epidote and 5% pyroxene, 3% pyrrhotite throughout, garnet rich (80%) from 124.95 - 126.05, occasional relict porphyritic andesite textures, 2 cm epidote and fluorite vein at 127.29, rare calcite veinlets.	1	0	0	0	0	0	0					
		Sk	Light grey phaneritic tonalite with quartz, plag, px, diopside and rare ankerite minerals, rare epidote veinlets with very rare associated fluorite.	0	3	0	0	0	0	0					
130	BC	Tn	Garnet - diopside skarn with occasional epidote and calcite veinlets, very rare pyrite, sharp contact with unit above, very rare relict porphyritic andesite texture.												
		Sk		0.5	0	0	0	0	0	0					

Scale 1:300

03/19/12

16:50:17

Hole Name: RD11-30																
REDFORD IRON ORE PROJECT											Hole Length: 157.93					
Segment Start Depth: 130.61											Segment End Depth: 174.14					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
-135	BC-	Sk	Garnet - diopside skarn with occasional epidote and calcite veinlets, very rare pyrite, sharp contact with unit above, very rare relict porphyritic andesite texture.		0.5	0	0	0	0	0						
		And	Altered grey - green porphyritic andesite, diopside and hedenbergite (?) alteration, 1-3mm anhedral plag phenos, common calcite and epidote veinlets throughout, lost core between 134.00 - 134.60.													
-140	BC-	Sk	Garnet - diopside skarn with common epidote and calcite veins and veinlets with associated rare fluorite and marcasite, relict altered andesite porphyritic textures (plag phenos).													
		Tn	Tonalite as above, contact with skarn above follows core axis to 138.43m, very rare marcasite along fracture planes.													
-145		Sk	Diopside and garnet skarn, low grade siliceous intervals as described below 142.30 - 144.98m: Garnet - diopside skarn as above, tonalite as above from 142.64 - 142.76 144.98 - 148.98m: Diopside skarn increasingly siliceous towards base of zone, occasional calcite veins and veinlets partially replaced by epidote (5%) and rare fluorite, pink rhodochrosite alteration of groundmass from 146.97 to 148.98, occasional relict porphyritic andesite texture (1-2mm plag phenos) 148.98 - 149.71m: Alternating grey - green and brownish-red banded zone, common px (?) 1-2mm phenos within fine grained diopside (?) groundmass, brown zones possibly hematite or altered biotite?, lighter zones are calcite rich with epidote and hedenbergite (?) 149.71 - 153.92m: Siliceous light to med grey-green skarn with abundant calcite and epidote veins and veinlets, 1-2% well formed hbl crystals within calcite; 15% epidote, 3% fluorite, 5% garnet, 1% pyrite mainly diopside from 151.83 - 153.92 with relict diorite textures, 5% pyrrhotite from 153.24 - 153.92; slightly altered diorite from 152.16 - 152.51 with rare fluorite, occasional diopside minerals, plag, quartz, px 153.92 - 154.42m: Diorite as above													
-150					1	0	0	0	0	0						
-155			Bs			0	5	0	0	0	0					
-155			Sk			2	0	0	0	0	0					
-160																
-165			Fine grained massive grey - green to brownish basalt, brown colour from biotite alteration (?) or hematite staining of groundmass, very rare plag phenos, occasional calcite and fluorite (?) veinlets, large 0.5cm patches of a black mineral (hbl?) with associated pyrite, occasional pyrite along veinlets as well.													
-170			Siliceous diopside skarn mottled with light pink rhodochrosite, common epidote veinlets, 2-3% fluorite and garnet, 156.19 - 156.26 hbl crystals along epidote veins. EOH													

Scale 1:300

03/19/12

16:50:17

Hole Name: RD11-29																
REDFORD IRON ORE PROJECT										Hole Length: 178.65						
Segment Start Depth: 0.00										Segment End Depth: 43.54						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
5		OB	Grey coarse crystalline porphyritic andesite, rare green diopside alteration from 7.33 - 7.80m, rare calcite veinlets, some reactive calcite in groundmass, 1-2mm plag phenos throughout, vein associated marcasite, disseminated pyrite, tonalite zone from 14.50 - 14.77, contact with underlying basalt follows core axis from 15.00 to 16.85.													
10		And	Very fine to fine grained massive dark grey to black altered basalt, rare pyrrhotite, marcasite and pyrite throughout, calcite veinlets, coarsens towards base contact, skarn zone from 17.34 - 17.45 and 17.70 - 17.81.	1	0	0	0	0	0	0						
15	BC	Bs	Silicified green - grey skarn, 50% diopside and 15% pyroxene, possibly altered tonalite and andesite in some zones, calcite veinlets and veins throughout, occasional pyrite throughout, brecciated zone from 23.17 - 23.32, pinkish zones rhodochrosite?, gradational lower contact with basalt.	1	1	0	0	0	0	0						
20		Sk	Basalt as above, occasional calcite and epidote veinlets.	1	0	0	0	0	0	0						
25		Bs	Very silicified often bleached low grade skarn, variable mineralogy and highly fractured to brecciated throughout, calcite veins and veinlets throughout 28.89 - 29.83m: beige - grey bleached siliceous zone, very hard, 5% pyrite 29.83 - 31.90m: green - dark grey diopside - pyroxene skarn, siliceous in some zones throughout, 5% pyrite disseminated and along calcite veins 31.90 - 38.00m: purple grey and green silicified bleached zone as above, 5% epidote and pyrite along veinlets, highly fractured and brecciated zone where clasts are dominantly grey (siliceous, very hard) and fracture fill dominantly green diopside (35%), calcite and some chlorite (2-3%, very soft and green), 1-2% pyrite disseminated, rare pinkish zones likely rhodochrosite (5%). 38.00 - 38.24m: Green fine grained diopside skarn 38.24 - 40.18m: as above at 31.90 with 15% rhodochrosite, 15% pyroxene, 1% pyrite and epidote 40.18 - 40.60m: silicified pink rhodochrosite skarn 80%, 5% diopside along veins, rare marcasite 40.60 - 43.27m: as above at 31.90m	1	1	0	0	0	0	0						
30		Sk		5	0	0	0	0	0	0						
35		Sk		2	0	0	0	0	0	0						
40	BC	Bs	40.60 - 43.27m: Light pink and green bleached silicified diopside (55%) - rhodochrosite (35%) skarn, rare marcasite and pyrite, 5% pyroxene.	1	0	0	0	0	0	0						
		Bs	Basalt as above.	1	0	0	0	0	0	0						

Scale 1:300

03/19/12

16:50:00

Hole Name: RD11-29														
REDFORD IRON ORE PROJECT										Hole Length: 178.65				
Segment Start Depth: 43.54										Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45		Bs	Basalt as above.		1	0	0	0	0	0				
		Sk	Pyroxene skarn, grey-green and black altered andesite, occasional calcite and epidote veinlets, gouge and breccia at 49.23 - 49.31, rare disseminated pyrite.		1	0	0	0	0	0				
50	FLTG- BC-0	And	Andesite as above, grey - tan colour, rare marcasite along calcite veinlets.											
55		Sk	Grey- green silicified and bleached skarn as above, grey minerals likely silica rich, 75% diopside, 15% rhodochrosite, 5% pyroxene, highly fractured with high concentration of calcite, diopside and rarely rhodochrosite along veinlets, increasingly silicified from top to bottom of zone, dark grey pyroxene rich interval from 53.30 - 53.66 with marcasite along veinlets, very rare fluorite.											
60		Tn	Very light grey - green to white tonalite, slightly diopside altered, very hard siliceous, possibly very silicified bleached skarn.											
65		Sk	Green diopside skarn, silicified bleached, 15% rhodochrosite, 10% garnet, 5% epidote, occasional calcite and epidote veinlets and veins, highly fractured and mineralized throughout, rare fluorite from 71.26 to 78.12, rare pyrite throughout, garnet rich zones from 73.33 - 73.60 and 77.60 - 78.12, pyrrhotite rich zone from 75.60 - 75.80, basalt altered by skarn from 75.60 - 76.95.		1	0	0	0	0	0				
70		Sk	78.12 - 78.82m: Andesite as above.											
75		Sk	Mottled to massive black magnetite replacing garnet- diopside skarn, calcite vein and veinlet associated pyrite (3%) and pyrrhotite (2%), higher sulphide % from 80.20 - 80.80m with 15% pyrite, 5% pyrrhotite, rare epidote veinlet from 82.14 - 82.40m, pyrite and pyrrhotite 1% from 83.60 - 99.73m, occasional flow banding and rare brecciation throughout, diopside - garnet skarn from 86.56 - 86.90, high sulphide associated with 1 cm calcite vein from 89.19 - 89.34 with 20% pyrite and 10% pyrrhotite.											
80		Mt		85	3	2	0	0	0	0	15015	78	79	27
											15017	79	80	84.8
											15018	80	81	53.8
											15019	81	82	39.3
											15020	82	83	78.4
											15021	83	84	81.6
											15022	84	85	76.4
											15023	85	86	70.8
85											15024	86	87	49.2
											15025	87	88	88.4

Scale 1:300

03/19/12

16:50:00

Hole Name: RD11-29															
REDFORD IRON ORE PROJECT										Hole Length: 178.65					
Segment Start Depth: 87.07										Segment End Depth: 130.61					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
-90	FLTG	Mt	Mottled to massive black magnetite replacing garnet- diopside skarn, calcite vein and veinlet associated pyrite (3%) and pyrrhotite (2%), higher sulphide % from 80.20 - 80.80m with 15% pyrite, 5% pyrrhotite, rare epidote veinlet from 82.14 - 82.40m, pyrite and pyrrhotite 1% from 83.60 - 99.73m, occasional flow banding and rare brecciation throughout, diopside - garnet skarn from 86.56 - 86.90, high sulphide associated with 1 cm calcite vein from 89.19 - 89.34 with 20% pyrite and 10% pyrrhotite.	85	3	2	0	0	0	0	0	15025	87	88	85.4
												15026	88	89	87.4
												15027	89	90	81.8
												15028	90	91	88.2
												15029	91	92	89.4
												15030	92	93	88.8
												15031	93	94	88
												15032	94	95	83.4
												15033	95	96	88.4
												15034	96	97	90.2
-95			Altered porphyritic grey to green andesite, coarse grained with abundant 1-2mm euhedral to anhedral plag phenos, silicified or bleached zone with associated occasional fluorite, common diopside (?) in groundmass from 103.87 - 105.10, occasional calcite and epidote veinlets with associated marcasite throughout, rare fluorite throughout, dark grey pyroxene altered from 99.73 - 103.87, green diopside alteration from 105.10 - 108.78, increasingly altered towards base contact, rare pyrite.								15035	97	98	90	
											15037	98	99	83	
-100			Diopside - garnet skarn, rare disseminated pyrite throughout 108.78 - 109.12m: mottled 85% garnet skarn with 10% diopside 109.12 - 114.03m: flow banded diopside skarn, replaced by mottled garnet rich zones, occasional bands of calcite, epidote veins and veinlets, rare pink rhodochrosite and fluorite associated with bands, rare marcasite along veins 114.03 - 116.55m: garnet skarn as above, 1.5cm calcite vein along core axis from 115.50 - 115.83 with associated marcasite and pyrite, sandy fault gouge from 116.45 - 116.51 116.51 - 118.03m: diopside skarn as above, 1cm calcite vein at 117.25m, flow banded to mottled 118.03 - 118.60m: garnet skarn as above 118.60 - 119.40m: diopside skarn as above												
-105		And	Diopside - garnet skarn, rare disseminated pyrite throughout 108.78 - 109.12m: mottled 85% garnet skarn with 10% diopside 109.12 - 114.03m: flow banded diopside skarn, replaced by mottled garnet rich zones, occasional bands of calcite, epidote veins and veinlets, rare pink rhodochrosite and fluorite associated with bands, rare marcasite along veins 114.03 - 116.55m: garnet skarn as above, 1.5cm calcite vein along core axis from 115.50 - 115.83 with associated marcasite and pyrite, sandy fault gouge from 116.45 - 116.51 116.51 - 118.03m: diopside skarn as above, 1cm calcite vein at 117.25m, flow banded to mottled 118.03 - 118.60m: garnet skarn as above 118.60 - 119.40m: diopside skarn as above												
-110		Sk	Diopside - garnet skarn, rare disseminated pyrite throughout 108.78 - 109.12m: mottled 85% garnet skarn with 10% diopside 109.12 - 114.03m: flow banded diopside skarn, replaced by mottled garnet rich zones, occasional bands of calcite, epidote veins and veinlets, rare pink rhodochrosite and fluorite associated with bands, rare marcasite along veins 114.03 - 116.55m: garnet skarn as above, 1.5cm calcite vein along core axis from 115.50 - 115.83 with associated marcasite and pyrite, sandy fault gouge from 116.45 - 116.51 116.51 - 118.03m: diopside skarn as above, 1cm calcite vein at 117.25m, flow banded to mottled 118.03 - 118.60m: garnet skarn as above 118.60 - 119.40m: diopside skarn as above												
-115		Sk	Diopside - garnet skarn, rare disseminated pyrite throughout 108.78 - 109.12m: mottled 85% garnet skarn with 10% diopside 109.12 - 114.03m: flow banded diopside skarn, replaced by mottled garnet rich zones, occasional bands of calcite, epidote veins and veinlets, rare pink rhodochrosite and fluorite associated with bands, rare marcasite along veins 114.03 - 116.55m: garnet skarn as above, 1.5cm calcite vein along core axis from 115.50 - 115.83 with associated marcasite and pyrite, sandy fault gouge from 116.45 - 116.51 116.51 - 118.03m: diopside skarn as above, 1cm calcite vein at 117.25m, flow banded to mottled 118.03 - 118.60m: garnet skarn as above 118.60 - 119.40m: diopside skarn as above												
-120		And	Grey altered porphyritic andesite with 1-2mm plag phenos, some phenos are replaced by 5% epidote, hematite stained, 2% pyrite disseminated throughout, rare fluorite.												
-125	FLTG	Sk	Diopside skarn with occasional calcite and epidote veinlets and 2% pyrite disseminated throughout, rare relict andesite textures, pinkish -grey bleached highly altered porphyritic andesite with grey-green anhedral phenos being replaced by pyrite from 122.76 - 123.30, rubbly from 126.84 -127.77.												
-130		Bs	Altered dark grey to black fine grained basalt, occasional calcite and epidote veinlets with associated pyrite and marcasite throughout, 85% magnetite zone from 127.83 - 127.90m, rare arsenopyrite associated with some veinlets throughout, calcite veining crosscuts epidote, diopside altered zone from 130.30 - 130.82, gradational contact at base with skarn.								15039	127	128	10.5	
											1	0	0	1	0

Scale 1:300

03/19/12

16:50:00

Hole Name: RD11-29														
REDFORD IRON ORE PROJECT										Hole Length: 178.65				
Segment Start Depth: 130.61										Segment End Depth: 174.14				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
135		Bs	Altered dark grey to black fine grained basalt, occasional calcite and epidote veinlets with associated pyrite and marcasite throughout, 85% magnetite zone from 127.83 - 127.90m, rare arsenopyrite associated with some veinlets throughout, calcite veining crosscuts epidote, diopside altered zone from 130.30 - 130.82, gradational contact at base with skarn.		1	0	0	1	0	0				
140	BC FLTG BC													
145	BC		Garnet skarn mottled with diopside, rare calcite veins and veinlets (1cm calcite vein at 161.94) with associated marcasite, fault gouged and fractured sandy zone with common chlorite from 138.31 - 139.02, 5% epidote throughout, 15% magnetite overall  134.37 - 135.46m: diopside (75%) skarn with common epidote (15%), fluorite (5%) and calcite veining with associated marcasite 138.11 - 144.40m: high amount of broken core 143.50 -147.37m: 20% magnetite banded and disseminated throughout garnet skarn, 10% pyrrhotite disseminated, 1% pyrite 147.37 - 150.55m: diopside skarn as above, rare relict altered basalt textures and dark grey colour 150.55 - 166.80m: garnet - magnetite skarn as above, magnetite 35% 166.80 - 178.65m: garnet (70%)-diopside (25%) skarn, rare fluorite and rhodochrosite 178.65 EOH	15	1	10	0	0	0	0	15040	143	144	10
											15041	144	145	5.2
											15042	145	146	13.5
											15043	146	147	15.1
											15044	147	148	1
											15045	150	151	9.1
											15046	151	152	8.9
											15047	152	153	27.9
											15048	153	154	22
											15049	154	155	5.6
										15050	155	156	4	
										15051	156	157	4	
	BC									15052	157	158	0.3	
										15053	158	159	1.3	
160	BC									15054	159	160	21.8	
										15055	160	161	9.1	
										15057	161	162	6.2	
										15058	162	163	20.2	
										15059	163	164	6.9	
										15060	164	165	18.8	
165										15061	165	166	18.9	
										15062	166	167	17	
170														

Scale 1:300

03/19/12

16:50:00

Hole Name: RD11-29															
REDFORD IRON ORE PROJECT											Hole Length: 178.65				
Segment Start Depth: 174.14											Segment End Depth: 217.68				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
		Sk		15											
-180			Garnet skarn mottled with diopside, rare calcite veins and veinlets (1cm calcite vein at 161.94) with associated marcasite, fault gouged and fractured sandy zone with common chlorite from 138.31 - 139.02, 5% epidote throughout, 15% magnetite overall												
-185			134.37 - 135.46m: diopside (75%) skarn with common epidote (15%), fluorite (5%) and calcite veining with associated marcasite												
-190			138.11 - 144.40m: high amount of broken core 143.50 -147.37m: 20% magnetite banded and disseminated throughout garnet skarn, 10% pyrrhotite disseminated, 1% pyrite												
-195			147.37 - 150.55m: diopside skarn as above, rare relict altered basalt textures and dark grey colour 150.55 - 166.80m: garnet - magnetite skarn as above, magnetite 35%												
-200			166.80 - 178.65m: garnet (70%)-diopside (25%) skarn, rare fluorite and rhodochrosite												
-205			178.65 EOH												
-210															
-215															
Scale 1:300			03/19/12					16:50:00							

Hole Name: RD11-28																
REDFORD IRON ORE PROJECT										Hole Length: 159.15						
Segment Start Depth: 0.00										Segment End Depth: 43.54						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
5		OB	<p>Banded green diopside to mottled garnet skarn, mineral percentages vary throughout the skarn zone as follows;</p> <p>10.10 - 14.74 m: mottled diopside - garnet skarn (50/50)</p> <p>14.74 - 20.66 m: flow banded fine grained diopside (80%) skarn with 5% garnet and 10% fluorite in 0.5 cm bands, epidote and calcite veinlets with associated marcasite, rare pyrite</p> <p>20.66 - 23.58 m: garnet (75%) skarn mottled with 15% diopside, 5% epidote, fluorite and rhodochrosite, rare marcasite</p> <p>23.58 - 24.84 m: diopside skarn as above</p> <p>24.84 - 25.62 m: garnet skarn as above</p> <p>25.62 - 27.66 m: diopside - garnet skarn as above at 10.10m, 5-10% epidote and fluorite, rare marcasite and pyrite</p> <p>27.66 - 29.57 m: diopside skarn as above</p> <p>29.57 - 34.40 m: fine grained diopside (60%) alternating with dm scale bands of garnet (40%), rare marcasite along fractures, bleached banded diopside zone from 32.50 to 34.40</p> <p>34.40 - 36.83 m: mottled garnet - diopside as above and 5% pyrrhotite, 5% magnetite increasing towards contact with magnetite</p>													
10	BC															
15	FLTG															
20		Sk			1	0	0	0	0	0	0					
25					1	0	0	0	0	0	0					
30				<p>Massive to mottled magnetite</p> <p>36.83 - 37.01m: flow banded magnetite (60%) with garnet diopside skarn (40%)</p> <p>37.01 - 39.47m: massive magnetite, rare calcite veinlets, rare epidote, 3% pyrrhotite</p> <p>39.47 - 40.23m: magnetite (60%) mottled with garnet-diopside skarn, rare marcasite along fractures</p>												
35					5	0	5	0	0	0	0	15001	35	36	8.2	
				Garnet skarn mottled with 25% diopside, rare epidote and calcite veinlets.								15002	36	37	22	
				Massive magnetite replacing garnet-diopside skarn.	85	0	3	0	0	0	0	15003	37	38	92	
												15004	38	39	88.2	
											15005	39	40	58		
40		Mt									15006	40	41	12.7		
		Sk									15007	41	42	45.3		
		Mt		90							15008	42	43	52.8		
		Sk	Garnet skarn mottled with 15% green diopside, rare epidote and pyrite throughout, massive magnetite band from 45.10 - 45.18m.		1	0	0	0	0	0	15009	43	44	34.1		

Scale 1:300

03/19/12

16:49:40



Hole Name: RD11-28															
REDFORD IRON ORE PROJECT										Hole Length: 159.15					
Segment Start Depth: 43.54										Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45	BC-	Sk	Garnet skarn mottled with 15% green diopside, rare epidote and pyrite throughout, massive magnetite band from 45.10 - 45.18m.	2	1	0	0	0	0	0	15009	43	44	34.1	
		Mt	Massive magnetite replacing garnet-diopside skarn as above, flow banded in bottom 15 cm.	90							15010	45	46	60	
											15011	46	47	94	
											15012	47	48	90.6	
											15013	48	49	89.6	
											15014	49	50	68.4	
50															
55	BC-		Garnet skarn with varying percentages of diopside, rare epidote and calcite veinlets with associated marcasite. 49.79 - 66.46m: garnet (70%) skarn mottled with 25% diopside 66.46 - 73.34m: flow banded diopside (75%) skarn with 15% rhodochrosite, 5% epidote, rare calcite veinlets, silicified/bleached from 68.35 - 70.08, 7cm quartzite vein at base.												
60	BC-	Sk													
65	BC-		Altered Basalt with mottled diopside and secondary crystallization of plag?; minor qtz veins 73.34-73.96, overlying andesite porphyry dyke with up to 20% px and hb phenos, 1-3mm												
70			Andesite with grey aphanitic groundmass and up to 8% hb <1mm; also minor dessicated plag (5-10%, 1-2mm); heavily silicified; unit ends in fault.												
75	FLTG-	Bs	Skarn, dark green to bleached pale green; low grade alteration; silicified, diopside-dominant with high hedenbergite? To 86.4; minor qtz and calcite veinlets; increased epidote beyond 92m												
80	FLT-	And	96.1-96.95, diorite dyke, 30% plag, 20% qtz, 10% hb with some altered diopside phenos, all 1-3mm; also minor epidote veins within 97-109.15, becomes darker with relict porphyry texture and heavy bleaching/silicification Py1-2%												
85		Sk													

Scale 1:300

03/19/12

16:49:40

Hole Name: RD11-28																
REDFORD IRON ORE PROJECT											Hole Length: 159.15					
Segment Start Depth: 87.07											Segment End Depth: 130.61					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
90		Sk	Skarn, dark green to bleached pale green; low grade alteration; silicified, diopside-dominant with high hedenbergite? To 86.4; minor Qtz and calcite veinlets; increased epidote beyond 92m 96.1-96.95, diorite dyke, 30% plag, 20% Qtz, 10% hb with some altered diopside phenos, all 1-3mm; also minor epidote veins within 97-109.15, becomes darker with relict porphyry texture and heavy bleaching/silicification Py1-2%													
95																
100																
105																
110		And	Andesite porphyry with 10% 1mm hb and 12% 1-4mm plag (desiccated phenos)													
115	BC	Sk	112.00-120.60m: Low grade diopside-dominant skarn with zones of darker hedenbergite? And relict plag porphyry texture. Grey to green groundmass 120.60 -132.24m: Dark grey to black pyroxene (hedenbergite?) alteration dominant with occasional relict plag porphyry textures, occasional calcite and epidote veinlets with rare associated fluorite.													
120																
125																
130																

Scale 1:300

03/19/12

16:49:40

Hole Name: RD11-28															
REDFORD IRON ORE PROJECT											Hole Length: 159.15				
Segment Start Depth: 130.61											Segment End Depth: 174.14				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
-135	BC	Sk	112.00-120.60m: Low grade diopside-dominant skarn with zones of darker hedenbergite? And relict plag porphyry texture. Grey to green groundmass 120.60 -132.24m: Dark grey to black pyroxene (hedenbergite?) alteration dominant with occasional relict plag porphyry textures , occasional calcite and epidote veinlets with rare associated fluorite.												
	BC	And													
-140	BC	Sk	Grey porphyritic andesite with occasional <1mm dessicated plag phenos, rare calcite veinlets with associated pyrite, rusty colouring in broken core from oxidation.												
-145	FLTG	And	Diopside skarn as above, rare relict porphyry texture with pyroxene (?) phenos, 5% light pink mineral (rhodochrosite?) throughout, 2-3% fluorite, 10% epidote, increasingly altered towards lower contact.	1	0	0	0	0	0	0					
-150	BC	Sk		Altered porphyritic andesite, dark grey-brown to green groundmass (hedenbergite?) with abundant 1-4mm phenos of plag altered to a light grey hard mineral and rare pyroxene, rare acicular (needle like) sulphide (pyrite?) replacing pyroxene phenos, rare calcite veinlets with associated pyrite, brecciated and gougy chlorite rich fault zone from 145.63 -145.73.	5	2	3	1	0	0	0	15063	151	152	1.5
-155											15064	152	153	3.8	
											15065	154	155	6.7	
											15066	155	156	1.1	
-160			Diopside - garnet - epidote skarn, rare fluorite and rhodochrosite associated with epidote along veinlets, rare pyrite disseminated throughout, rare calcite veinlets with associated marcasite throughout, amount of sulphides increases with 5% magnetite, 3% pyrrhotite, 2% pyrite and 1% chalcocopyrite from 151.10 - 156.14.												
-165															
-170			Coarse crystalline salt and pepper diorite with common plag, grey-green diopside to pyroxene, quartz, marcasite along veinlets, occasional disseminated pyrite, rare calcite and epidote veinlets, very rare fluorite associated with epidote. EOH at 159.15m												

Scale 1:300

03/19/12

16:49:40

Hole Name: RD11-27															
REDFORD IRON ORE PROJECT											Hole Length: 212.80				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		OB													
10															
15															
20															
25	BC														
30	BC BC	Bs	Fine grained dk grey/blk basalt with zones of skarn alteration and calcic and epidote veining. Fault planes sandy to chalky and calcic from veining; pink/purple altered biotite throughout 35.32-35.70m: Diopside skarn 48.17m-67.86: Intermittent zones of alteration/diopside skarn in basalt	1	0.5	0	0	0	0						
35															
40	BC														

Scale 1:300

03/19/12

16:48:09

Hole Name: RD11-27														
REDFORD IRON ORE PROJECT										Hole Length: 212.80				
Segment Start Depth: 43.54										Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45														
50														
55	BC-0	Bs	Fine grained dk grey/blk basalt with zones of skarn alteration and calcic and epidote veining. Fault planes sandy to chalky and calcic from veining; pink/purple altered biotite throughout 35.32-35.70m: Diopside skarn 48.17m-67.86: Intermittent zones of alteration/diopside skarn in basalt		1	0.5	0	0	0	0				
60														
65														
70	BC-0	Sk	Skarn efferveces where calcic veins present		1	0.5	0	0	0	0				
75														
80														
85		Sk	Garnet skarn, blocky throughout, epidote from 81.70 - 81.76 m.											

Scale 1:300

03/19/12

16:48:09

Hole Name: RD11-27																
REDFORD IRON ORE PROJECT											Hole Length: 212.80					
Segment Start Depth: 87.07											Segment End Depth: 130.61					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
90		Sk	Garnet skarn, blocky throughout, epidote from 81.70 - 81.76 m. Light grey fine to medium crystalline marble, occasional calcite with very rare associated pyrite.		1	0.5	0	0	0	0						
95		Mb	Diopside-garnet skarn with occasional relic porphyritic andesite texture from 110.82 - 111.82, gouged fault zones from 109.15 - 109.25 and 109.90 - 110.00 m, occasional calcite veinlets throughout, talc or serpentine from 109.12 - 109.57.													
100			Medium - dark green to grey fine grained porphyritic andesite, common 1-2mm plag phenos throughout, diopside to pyroxene alteration, relatively unaltered light grey andesite from 114.30 - 115.40, occasional calcite and epidote veinlets throughout, 1-3mm euhedral amphibole phenos 120.60 - 120.87 m, rare disseminated pyrite throughout, rare marcasite along veinlets from 111.82 - 114.48.		0.5	0	0	0	0	0						
105	FLTG	Sk	120.90 -121.86 Back to Diopside skarn as above													
110	FLTG FLTG		Light to medium grey fine to coarse crystalline marble 121.86 - 126.00m serpentine and epidote veinlets with associated rare marcasite													
115	BC	And	127.12 - 128.18m Chaotic altered zone within marble, minimal diopside alteration, 3% pyrrhotite disseminated, rare pyrite 128.62 - 129.27m Diopside (55%) skarn alteration zone, very chaotic with 5% serpentine along fractures/veinlets 135.80 - 137.12m Chaotic brecciated (?) textures with black mineral intermixed with marble		1	0	0	0	0	0						
120		Mb	139.55 - 141.20m epidote and calcite veinlets, occasional chaotic zones													
125			142.40 - 142.95 40% calcite, serpentine and epidote veins, very fractured zone													
			146.09 - 146.12m rare marcasite													
			147.75 - 148.72m occasional epidote veinlets													
130					0.5	3	0	0	0	0						

Scale 1:300

03/19/12

16:48:09

Hole Name: RD11-27

REDFORD IRON ORE PROJECT Hole Length: 212.80

Segment Start Depth: 130.61 Segment End Depth: 174.14

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
135		Mb	Light to medium grey fine to coarse crystalline marble 121.86 - 126.00m serpentine and epidote veinlets with associated rare marcasite 127.12 - 128.18m Chaotic altered zone within marble, minimal diopside alteration, 3% pyrrhotite disseminated, rare pyrite 128.62 - 129.27m Diopside (55%) skarn alteration zone, very chaotic with 5% serpentine along fractures/veinlets 135.80 - 137.12m Chaotic brecciated (?) textures with black mineral intermixed with marble 139.55 - 141.20m epidote and calcite veinlets, occasional chaotic zones 142.40 - 142.95 40% calcite, serpentine and epidote veins, very fractured zone 146.09 - 146.12m rare marcasite 147.75 - 148.72m occasional epidote veinlets												
140															
145															
150			And	Green to dark grey fine grained porphyritic andesite 148.72 - 149.46m Flow banded diopside - garnet skarn to 149.18m, massive diopside skarn to 149.46m 149.46 - 153.72m dark grey pyroxene altered porphyritic andesite with abundant 1-3mm plag phenos in clusters with pyroxene, occasional calcite and epidote veinlets with associated marcasite (5%) 153.72 - 156.00m green diopside very altered andesite, porphyritic texture not always visible, 153.97 - 154.05 m 5% fluorite, 15 - 20 % light pink mineral (rhodochrosite?), rare pyrite 156.00 - 156.90m dark grey andesite as above 156.90 - 157.63m green andesite as above 157.63 - 158.50m dark grey andesite as above 158.50 - 158.76m green andesite as above											
155	BC					1	0	0	0	0	0				
160						1	0	0	0	0	0				
165						1	0	0	0	0	0				
165			Mb	Light to medium grey fine to coarse crystalline marble with occasional epidote veinlets throughout, small diopside - garnet skarn intrusions from 163.64 - 163.96 and from 164.08 - 164.18m, mottled magnetite (25%) from 164.18 to magnetite contact.	25							14951	164	165	5.2
170			Mt	Massive magnetite with 10% diopside (?) throughout, 3% pyrite, 5% calcite, rare pyrrhotite								14952	165	166	4.2
170	BC				Light grey - tan fine grained porphyritic andesite, 1-3mm plag phenos, 170.57 - 170.65m magnetite zone, with pyrrhotite, rare disseminated pyrite throughout, rusty oxidization along fractures.	85	1	3	0	0	0	0	14953	166	167
170		And	Light grey - tan fine grained porphyritic andesite, 1-3mm plag phenos, 170.57 - 170.65m magnetite zone, with pyrrhotite, rare disseminated pyrite throughout, rusty oxidization along fractures.								14954	167	168	74.8	
170				Massive magnetite with 5% calcite, rare vein related epidote, rare pyrite and pyrrhotite throughout	1	1	0	0	0	0	0	14955	168	169	66
170												14956	169	170	50.2
170		Mt									14957	170	171	13	
170				85	1	1	0	0	0	0	14958	173	174	48.5	





Hole Name: RD11-26															
REDFORD IRON ORE PROJECT										Hole Length: 153.96					
Segment Start Depth: 0.00										Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		OB													
10	45 FLTG														
15															
20			Skarn, primarily diopside-rich, becomes more garnet-dominant beyond 30m; epidote also increases in this zone; flow banded texture, approx 45 deg TCA; becomes mottled beyond 30m. 9.65-30m, fluorite and rhodochrosite up to 15%; associated epidote blebs												
25		Sk													
30															
35			Magnetite, massive, with interfingering bands of garnet skarn within (up to 1m); also Py, Pyrr, and Cpy up to 5% between 44.34-51.41; minor garnet skarn within magnetite, primarily dendritic diopside stringers beyond 48m												
40			43.33-44.33, garnet skarn with brecciated upper contact and lower contact at 45 deg TCA 45.36-45.76, garnet skarn as above 46.6-47.76, garnet/diopside skarn and assoc ep with mottled magnetite mixed in												
	FLTG	Mt		80							14901	42	43	9	
											14902	43	44	26.8	

Scale 1:300

03/19/12

17:03:56

Hole Name: RD11-26																
REDFORD IRON ORE PROJECT										Hole Length: 153.96						
Segment Start Depth: 43.54										Segment End Depth: 87.07						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
45		Mt	Magnetite, massive, with interfingering bands of garnet skarn within (up to 1m); also Py, Pyrr, and Cpy up to 5% between 44.34-51.41; minor garnet skarn within magnetite, primarily dendritic diopside stringers beyond 48m 43.33-44.33, garnet skarn with brecciated upper contact and lower contact at 45 deg TCA 45.36-45.76, garnet skarn as above 46.6-47.76, garnet/diopside skarn and assoc ep with mottled magnetite mixed in	80	5	5	3	0	0	0	14902	43	44	26.8		
50		Sk	Garnet skarn, with mottled diopside and epidote; upper contact grades out of magnetite unit gradually with mt gone beyond 51.75m; 5% marcasite along fracture planes 68.17-68.35, Band of 70% mt 73-75m, increased epidote, with rhodochrosite, hedenbergite and diopside mottled within	85	1	1	1	0	0	0	14907	48	49	83.4		
55	FLTG	Sk	Garnet skarn, with mottled diopside and epidote; upper contact grades out of magnetite unit gradually with mt gone beyond 51.75m; 5% marcasite along fracture planes 68.17-68.35, Band of 70% mt 73-75m, increased epidote, with rhodochrosite, hedenbergite and diopside mottled within	40							14910	51	52	41.4		
	FLTG															
60		Sk	Garnet skarn, with mottled diopside and epidote; upper contact grades out of magnetite unit gradually with mt gone beyond 51.75m; 5% marcasite along fracture planes 68.17-68.35, Band of 70% mt 73-75m, increased epidote, with rhodochrosite, hedenbergite and diopside mottled within													
65		Sk	Garnet skarn, with mottled diopside and epidote; upper contact grades out of magnetite unit gradually with mt gone beyond 51.75m; 5% marcasite along fracture planes 68.17-68.35, Band of 70% mt 73-75m, increased epidote, with rhodochrosite, hedenbergite and diopside mottled within													
70		Sk	Garnet skarn, with mottled diopside and epidote; upper contact grades out of magnetite unit gradually with mt gone beyond 51.75m; 5% marcasite along fracture planes 68.17-68.35, Band of 70% mt 73-75m, increased epidote, with rhodochrosite, hedenbergite and diopside mottled within													
75		And	Andesite, porphyritic, 1-5mm plag 12%; 10% hb 1-2mm; 10% ankerite; trace py; aphanitic grey groundmass; sharp irregular upper contact at 5% TCA													
80		And	Skarn, low grade with high non-diopside pyroxene (hedenbergite?) and lesser rhodochrosite;  90m, large calcite veins up to 5cm locally; basal contact at 5-10 deg TCA between 90-91m 87.2-91m vuggy													
85		Sk	Skarn, low grade with high non-diopside pyroxene (hedenbergite?) and lesser rhodochrosite;  90m, large calcite veins up to 5cm locally; basal contact at 5-10 deg TCA between 90-91m 87.2-91m vuggy													

Scale 1:300

03/19/12

17:03:57

Hole Name: RD11-26																
REDFORD IRON ORE PROJECT											Hole Length: 153.96					
Segment Start Depth: 87.07											Segment End Depth: 130.61					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
90	FLTG	Sk	Skarn, low grade with high non-diopside pyroxene (hedenbergite?) and lesser rhodochrosite;													
95			90m, large calcite veins up to 5cm locally; basal contact at 5-10 deg TCA between 90-91m 87.2-91m vuggy													
100		Bs	Basalt with recrystallized zones with plag to 10%, 1mm													
105			106-108, , diopside alteration of groundmass Py 2%, disseminated	3	0	0	0	0	0	0						
110																
115		Dt	Diorite, 15% hb, 1-2mm; 30% plag, 1-3mm; 25% qtz, 1-3mm; 5% fluorite, 1-2mm Darker altered groundmass and skarn altered zones													
120			Skarn, low grade, diopside dominant, no garnet but darker hedenbergite? Present													
125		Sk	Andesite, aphanitic grey groundmass with 10% hb <1mm Low grade skarn, as above													
			Diorite, as above with lesser alteration and minor basalt inclusions													
		And	131-131.17, brecciated zone	2	0	0	0	0	0	0						
		Sk	131.17-135 basalt intrusion with biotite altered groundmass													
			132.6-132.93, diopside skarn intrusion with lesser epidote													
130		Dt		1	0	0	0	0	0	0						

Scale 1:300

03/19/12

17:03:57

Hole Name: RD11-26														
REDFORD IRON ORE PROJECT										Hole Length: 153.96				
Segment Start Depth: 130.61										Segment End Depth: 174.14				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
135	FLT- FLT-	Dt	Diorite, as above with lesser alteration and minor basalt inclusions 131-131.17, brecciated zone 131.17-135 basalt intrusion with biotite altered groundmass 132.6-132.93, diopside skarn intrusion with lesser epidote		1	0	0	0	0	0				
145	FLT- CTC	And	Andesite, as above											
150		Dt	Diorite, as above, becoming less altered with depth. EOH											
155														
160														
165														
170														

Scale 1:300

03/19/12

17:03:57

Hole Name: RD11-25															
REDFORD IRON ORE PROJECT										Hole Length: 201.22					
Segment Start Depth: 0.00										Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		QB													
10															
15		Bs	<p>Altered basalt with dark grey to black groundmass and aphanitic hb phenos. Calcite veins at 60tca and veinlets at 30 tca with minor associated epidote alteration. Trace py disseminated throughout.</p> <p>15.24-17.15m, Area of low grade deformation, basalt becomes siliceous as well bleached and altered with py (25%) along calcite veining and veinlets at random orientation. Increase in white alteration mineral poss chlorite?.</p> <p>16.5m, fracture plane infilled with clay gouge at 30 tca.</p> <p>17.36m, 15cm long calcite vein running parallel to core axis. Minor epidote alteration of calcite and large hb lathes 4mm to 2cm in size.</p> <p>31.73m, py increases along fracture plane to 10%.</p> <p>36.32-42.68m, py (10%) increases a blebs along fracture planes and as disseminated cube throughout.</p>	1	0	0	0	0	0						
20				25	0	0	0	0	0	0					
25				10	0	0	0	0	0	0					
30				1	0	0	0	0	0	0					
35															
40															
Scale 1:300			03/19/12					17:04:16							

Hole Name: RD11-25															
REDFORD IRON ORE PROJECT											Hole Length: 201.22				
Segment Start Depth: 43.54											Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45		Bs	Altered basalt with dark grey to black groundmass and aphantic hb phenos. Calcite veins at 60tca and veinlets at 30 tca with minor associated epidote alteration. Trace py disseminated throughout.		1	0	0	0	0	0					
50		Bs	15.24-17.15m, Area of low grade deformation, basalt becomes silicious as well bleached and altered with py (25%) along calcite veining and veinlets at random orientation. Increase in white alteration mineral poss chlorite?.												
55		Bs	16.5m, fracture plane infilled with clay gouge at 30 tca. 17.36m, 15cm long calcite vein running parallel to core axis. Minor epidote alteration of calcite and large hb lathes 4mm to 2cm in size.												
60		And	31.73m, py increases along fracture plane to 10%. 36.32-42.68m, py (10%) increases a blebs along fracture planes and as disseminated cube throughout.		10	0	5	0	0	0					
65		Bs													
70		Bs	Porphyritic andesite dyke with fine grained grey groundmass, dessicated plag (15%), calcite (10%) 2-4mm and hb (20%) 2-5mm phenos. Cpy (5%) and py (10%) present along fracture planes.		2	0	0	0	0	0					
75		Bs	Altered basalt same as described above with muddy brown, biotite alteration of groundmass. Trace py disseminated throughout 2%.		10	0	0	0	0	0					
80		Bs	76.2- 87.52m, basalt becomes silicious and increasingly bleached taking on more skarn like texture downhole with diopside alteration and calcite veins/veinlets at 50 tca. 78.1-79.27m, py disseminated throughout increases to 10% and marcasite blebs 10%.												
85		Bs													

Scale 1:300

03/19/12

17:04:16

Hole Name: RD11-25														
REDFORD IRON ORE PROJECT										Hole Length: 201.22				
Segment Start Depth: 87.07										Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
90		Sk	Altered basalt same as described above with muddy brown biotite alteration of groundmass. Trace py disseminated throughout 2%. 76.2- 87.52m, basalt becomes silicious and increasingly bleached taking on more skarn like texture downhole with diopside alteration and calcite veins/veinlets at 50 tca. 78-79.27m, py disseminated throughout increases to 10% (murchisonite dominated and diopside) around 91m garnet starts to become mottled throughout the core with minor epidote stringers.											
95	BC	Sk	91.6m, Garnet (85-90%) skarn mottled with diopside (15%) with some minor calcite veinlets at random orientation. 94.51-97m, core is blocky and pulverized...poss core loss? 98.25m, fracture plane with chlorite and serpentine?, py large cubes 2-5mm along fracture plane 65 tca. 98.25-98.61m, band of epidote (90%) dominated skarn with minor garnet (5%). 98.61-98.8m, garnet Mt (90%) as well as minor calcite talc veins at random orientation. White chlorite/calcite gouge along fracture planes.	30							14801	98.5	99.5	16.5
100		Mb	105.10-106.3m, py cubic and disseminated along fracture plane same as described above. Grey marbles along fracture desiccated plag (25%) phenos as well as aphanitic hb (10%) phenos. Minor calcite throughout as well as along rare veins/veinlets 30 tca and fracture planes.		5	0	0	0	0	0				
105		And	Altered basalt same as described above with calcite and white stringers at the base of plag phenos 1-2mm are associated around veining.											
110		Mb	110.1-110.7m, garnet stringers within basalt. 110.7-111.18m, small altered/deformed dyke, bleached silicious groundmass with py disseminated along fracture planes 25%. 117.83-118.9m, groundmass becomes more bleached taking on a green tinge. 120.34-120.9m, raised bobbey marble skarn mixed throughout.											
115		Bs	121.75-122.37m, garnet (80%) skarn with diopside (10%) and epidote (5%) becoming mixed with marble after 122.37-122.8m. Mt (30%) blebs throughout with pyr 10% and massive magnetite (90%) with some sericite?? alteration and minor graphite. Epidote along with serpentine? along fracture planes.	30	5	10	0	0	0	0	14802	121	122	0.3
120		Mb	136.38m, py 20% along veining within fracture plane. 136-137.2m, white sericite? Veining at 30 tca 141-142m, hem 10% 145.6-157.83m, increase in alteration, Mt (85%). 150.74-150.9m, fault with gouge	30	5	15	0	0	0	0	14803	122	123	20.8
125		Mt		10	5	15	0	0	0	0	14805	123	124	0.4
											14806	124	125	16.8
											14807	125	126	80.8
											14808	126	127	83.4
											14809	127	128	77.8
											14810	128	129	81
											14811	129	130	76.6
											14812	130	131	74

Scale 1:300

03/19/12

17:04:16





Hole Name: RD11-25														
REDFORD IRON ORE PROJECT							Hole Length: 201.22							
Segment Start Depth: 174.14							Segment End Depth: 217.68							
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
		Mt	Magnetite, massive, as above	60							14853	174	175	47.8
	FLTG		174-175, heavy talc and calcite veining 175.4-176, highly graphitic, pulverized, likely faulted	50							14854	175	176	64.4
											14855	176	177	4.8
-180														
-185	BC	And	Andesite, aphanitic groundmass light grey to tan; heavily silicified with up to 10% plag (1-2mm) and 8% hb (<1mm) porphyry; upper contact brecciated with gouge matrix from 176.02-176.7 Entire unit very blocky 183.5-186, diopside-altered groundmass (pale green) with rare epidote veinlets 192-192.5, diopside-altered groundmass, as above Begins to grade gradually into skarn between 194-198.44; coarser plag (2-4mm), increasing to up to 25% with trace epidote veinlets; garnet appears by 198m		1	0	0	0	0	0				
-190														
-195	FLTG													
-200		Sk	Skarn, primarily diopside with lesser assoc garnet 201-201.22, py veinlet running 10 deg TCA, 2mm thick		4	0	0	0	0	0				
-205														
-210														
-215														

Hole Name: RD11-24															
REDFORD IRON ORE PROJECT										Hole Length: 150.91					
Segment Start Depth: 0.00										Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		OB													
15		Bs	<p>Altered basalt with aphanitic hb and calcite veins/ veinlets at random orientation with minor associated epidote alteration. Groundmass is altered in some areas with by possible biotite alteration giving it a muddy brown color. Py disseminated throughout 2%.</p> <p>16-19m, py increases to 5%, marcasite along fracture planes 5% and pyr blebs along calcite veinlets 5%</p> <p>19-22.2m, basalt sounds increased low grade alteration, core becomes bleached with groundmass becoming increasingly more grey. Py increases to 30% along fracture planes and veins/veinlets. 22.1m, 10cm of brecciated bleached basalt and calcite.</p>	2	0	0	0	0	0						
20				5	5	0	0	0	0	0					
25				30	0	0	0	0	0	0					
35				2	0	0	0	0	0	0					
40															

Scale 1:300

03/19/12

17:04:36

Hole Name: RD11-24																
REDFORD IRON ORE PROJECT											Hole Length: 150.91					
Segment Start Depth: 43.54											Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
45		And	Altered basalt with aphanitic hb and calcite veins/ veinlets at random orientation with minor associated epidote alteration. Groundmass is altered in some areas with by possible biotite alteration giving it a muddy brown color. Py disseminated throughout 2%.		5	0	0	0	0	0						
50		Bs	16-19m, py increases to 5%, marcasite along fracture planes 5% and pyr blebs along calcite veinlets 5% 19-22.2m, basalt sounds increased low grade alteration, core becomes bleached with groundmass becoming increasingly more grey. Py increases to 30% along fracture planes and veins/veinlets. 22.1m, 10cm of brecciated bleached basalt and calcite.	2	0	0	0	0	0	0						
55			Porphyritic andesite dyke in graded contact with altered basalt. Andesite has fine grained grey groundmass with dessicated hb (15%)phenos 2-3 mm and calcite (5%) phenos 4-6mm in size, also rare aphanitic plag. Py as blebs along fracture planes and disseminated throughout core (5%).													
60		Bs	Altered basalt same as above. Py disseminated throughout and as some blebs 2%.	15	5	0	0	0	0	0						
65			63.41-70m, py increases along fracture planes to 15% 63.75-64m, pyr (5%) along veinlets with calcite alteration halos.	15												
70			70-80m, Basalt becomes increasingly altered downhole with areas of core being bleached and taking on skarn like texture. Py disseminated throughout and as blebs along fracture planes (5%). Apy disseminated along fracture planes (5%) from 70-77.5m.													
75		And	Altered andesite dyke, fine grained grey groundmass with dessicated plag (30%), rare aphanitic hb phenos (5%) and aphanitic anchorite (25%) phenos. Calcite veining at random orientation along with minor epidote.	5	0	0	0	5	0	0						
80			Altered basalt same as above. Py as blebs along fracture planes 10%.	5	0	0	0	0	0	0						
85		Bs	83.23m, 2cm calcite vein 50tca. 91-98.71m, Py increases to 25% as blebs within core, along fracture planes and along veins/veinlets. 93.48-94.43m, highly silicious altered andesite dyke, py along veinlets 20%, calcite vein 50 tca. 94.87-95.26m, altered andesite dyke, grey fine grained groundmass with dessicated plag and hb phenos.	10	0	0	0	0	0	0						

Scale 1:300

03/19/12

17:04:36

Hole Name: RD11-24														
REDFORD IRON ORE PROJECT										Hole Length: 150.91				
Segment Start Depth: 87.07										Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
			Altered basalt same as above. Py as blebs along fracture planes 10%.											
90		Bs	83.23m, 2cm calcite vein 50tca. 91-98.71m, Py increases to 25% as blebs within core, along fracture planes and along veins/veinlets. 93.48-94.43m, highly silicious altered andesite dyke, py along veinlets 20%, calcite vein 50 tca. 94.87-95.26m, altered andesite dyke, grey fine grained		10	0	0	0	0	0				
95		Bs	Massive magnetite (85%) mottled with diopside, garnet skarn and calcite veinlets at random orientation. Py present along veinlets 2%.		10	0	0	0	0	0				
100		Mt	100.22m, pyr vein at 55 tca along contact with basalt. Altered andesite dyke with dessicated plag phenos 2-3mm and rare dessicated hb, groundmass is light grey grading to black at contact with underlying Mt. Epidote and calcite veining throughout at 55 tca, veinlets at random orientation. Trace py disseminated throughout.	85	2	10	0	0	0	0	14751	100	101	57.4
		Mt									14752	101	102	73.2
		Mt									14753	102	103	35.7
105		And	Impure magnetite (80%) mottled with diopside and poss sericite? alteration. Trace py along fracture planes. Porphyritic andesite dyke with dessicated plag (15%) phenos 2-4mm and aphanitic hb (20%), groundmass is fine grained and grey. Calcite veining at 30 tca as well as along fracture planes.		1	0	0	0	0	0				
		Mt	Impure magnetite (80%) same as above.	80	1	0	0	0	0	0	14754	106	107	38.1
		Mt									14755	107	108	64.2
		Mt									14756	108	109	77.6
110		And	113.2-113.55m, slightly altered andesite dyke, same as above with slight darker grey groundmass. 114.52-115.52m, andesite dyke, same as above											
		Mt	117-121.2m, epidote becomes present along fracture planes. 121-124m, hem (10%) along fracture planes and as blebs in core.								14757	109	110	59
		Mt	124-124.89m, increase in alteration minerals, Mt (20%), py along fracture planes 15% Garnet (40%) skarn mottled with diopside (30%) and calcite blebs as well as veining at 30 tca. Minor epidote stringers.	80							14758	111	112	73.2
		Mt	127.6-130.05m, areas of skarn become bleached with blebs of impure magnetite (80%) mottled with diopside and poss sericite alteration as well as hedenbergite.								14759	112	113	65.8
		Mt									14760	113	114	33.5
		Mt									14761	114	115	46
		Mt									14762	115	116	62.2
		Mt									14763	116	117	76.4
		Mt									14764	117	118	77.2
		Mt									14765	118	119	24.4
		Mt									14766	119	120	80.8
120		Mt	130.44-131.69m, fault, broken pulverized core. 131.75-132.2m, fault								14767	120	121	63.8
		Mt	133.82m, pyr (10%)bleb and along veinlets, cpy disseminated (2%).	80	0	0	0	0	0	10	14768	121	122	83.2
		Mt	133.88-136.46m, increase in alteration minerals, Mt (20%). Hedenbergite increases with a green micous crystals appearance.	20	15	0	0	0	0	0	14769	122	123	85.8
		Mt	136.59-147.7m, cpy 2% as blebs, py 2% along fracture planes, at 146.55-146.65m, apy (5%) as blebs in core.								14770	123	124	79.6
		Mt	140.46-141.1m, fault with gouge.								14771	124	125	14.1
		Mt	141.1-141.68m, altered andesite dyke with dessicated plag and calcite phenos. Minor epidote alteration along veinlets and	80							14772	125	126	1.3
		Mt									14773	125	126	1.3
130		Sk									14774	128	129	0.6
		Mt									14775	129	130	1.5
		Mt									14776	130	131	13.2

Scale 1:300

03/19/12

17:04:36

Hole Name: RD11-24																	
REDFORD IRON ORE PROJECT										Hole Length: 150.91							
Segment Start Depth: 130.61										Segment End Depth: 174.14							
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct			
-135	FLT- FLT-         FLTG-	Mt	Impure magnetite (80%) mottled with diopside and poss sericite alteration as well as hedenbergite.  130.44-131.69m, fault, broken pulverized core. 131.75-132.2m, fault 133.82m, pyr (10%)bleb and along veinlets, cpy disseminated (2%). 133.88-136.46m, increase in alteration minerals, Mt (20%). Hedenbergite increases with a green micous crystals appearance. 136.59-147.7m, cpy 2% as blebs, py 2% along fracture planes, at 146.55-146.65m, aspy (5%) as blebs in core. 140.46-141.1m, fault with gouge. 141.1-141.68m, altered andesite dyke with dessicated plag and calcite phenos. Minor epidote alteration along veinlets and as halos around calcite.	80								14776	130	131	28.2		
													14777	131	132	6	
														14778	132	133	31.4
														14779	133	134	51.4
														14780	134	135	6.4
														14781	135	136	1.7
														14782	136	137	39.6
														14783	137	138	74.4
														14784	138	139	80.4
														14785	139	140	76.2
-140				80	2	0	2	0	0	0	14786	140	141	84.4			
												14787	141	142	15.5		
												14788	142	143	73.4		
												14789	143	144	84.2		
												14790	144	145	77.6		
												14791	145	146	73.2		
												14793	146	147	67.4		
												14794	147	148	38.9		
-150		Bs	Altered basalt same as described above, becoming increasingly bleached from 149.36-150m.  150-150.3m, Mt (50%) mixed with basalt, py (15%) blebs along fracture planes. 150.3-150.91m, core loss.  150.91m EOH : hole was ended early as it intersected the underground workings and could not be continued.	50	15	0	0	0	0	0	0	14795	149.8	150.3	36.1		
Scale 1:300			03/19/12						17:04:36								

Hole Name: RD11-23														
REDFORD IRON ORE PROJECT										Hole Length: 222.56				
Segment Start Depth: 0.00										Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
5		OB												
10														
15		Bs	Basalt, massive, black, with zones of recrystallization and minor plag (15% <2mm) as well as veinlet-sourced bleaching; trace diss py, 1%	1	0	0	0	0	0	0				
20														
25														
30														
35														
40														
Scale 1:300			03/19/12					17:05:03						

Hole Name: RD11-23															
REDFORD IRON ORE PROJECT										Hole Length: 222.56					
Segment Start Depth: 43.54										Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45		Bs	Basalt, massive, black, with zones of recrystallization and minor plag (15% <2mm) as well as veinlet-sourced bleaching; trace diss py, 1%		1	0	0	0	0	0					
	FLT														
50															
	FLT														
55															
	FLTG	And	Andesite porphyry, with two generations of alteration; 48-54.35, aphanitic tan-light grey groundmass with 10-15% 1-2mm hb and 5-10% 12-3mm plag phenos; diss py, 2% 54.35, groundmass greenish grey with large clusters (<5mm) of plag (2-3mm,) and hb (1-3mm) at approx 20%, 3% diss py		2	0	0	0	0	0					
60															
65															
	BC														
70		Bs	Basalt, becoming more altered with depth with veinlet-sourced bleaching and coarser remineralization; otherwise as above		1	0	0	0	0	0					
75															
80		Sk	Skarn, primarily diopside with with alteration mottled within (silicified marble?); heavily silicified, altered from overlying basalt?												
85															
		Bs	Massive, black to dark grey, fine-grained with minor calcite veins and trace disseminated py (1%)		1	0	0	0	0	0					

Scale 1:300

03/19/12

17:05:03

Hole Name: RD11-23															
REDFORD IRON ORE PROJECT											Hole Length: 222.56				
Segment Start Depth: 87.07											Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
90		Bs	Massive, black to dark grey, fine-grained with minor calcite veins and trace disseminated py (1%)		1	0	0	0	0	0					
95		Sk	Mottled diopside/garnet skarn with trace epidote; top of unit to 91.25 is primarily silicified marble within the skarn; heavy iron staining 93.4-95.7 brown retrograde alteration of garnet												
100	FLTG	And	Andesite, silicified with altered dark grey-brown groundmass; dessicated hb and plag phenos at 1-2mm, 10% and 2-3mm, 10% respectively		1	0	0	0	0	0					
105		Mb	Marble, massive, white to grey												
110		And	Andesite, silicified and altered as above 111.95-112.45, deformed, skarn-altered gouge zone with last 10cm as breccia and gouge matrix Py diss, 1%												
115		Mb													
120		Mb	Marble, massive, white to medium grey; 128.9-129.13, epidote skarn dyke with hedenbergite? and gouge												
125		Mb													
130	FLT-C	Mb													

Scale 1:300

03/19/12

17:05:03



Hole Name: RD11-23																
REDFORD IRON ORE PROJECT										Hole Length: 222.56						
Segment Start Depth: 130.61										Segment End Depth: 174.14						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
		Mb	Marble, massive, white to medium grey; 128.9-129.13, epidote skarn dyke with hedenbergite? and gouge													
135	FLTG	Sk	Skarn, low level of alteration, texture resembles marble with small amounts of diopside and garnet within; dark veinlets similar to those in marble; upper and basal contact faulted													
	FLT															
140		And	Andesite, porphyritic and silicified as above; very heavy, veinlet-sourced? orange iron staining mottled with original grey groundmass (over 50% of unit); plag 15%, 2-3mm, hb 10%, <1mm;diss py 2-5% 143.64, 14cm mottled skarn dyke (low level alteration) 148.84-149.35, band of marble 149.35-152.96, zone of skarn alteration; original texture still visible with heavy silicification and mottled di/gt; some replacement of phenos to di; groundmass is matte green-grey Basal contact irregular, sharp													
145	BC															
150	FLT															
155		Mb	Marble, massive, as above													
160	FLT															
165																
170																

Scale 1:300

03/19/12

17:05:03

Hole Name: RD11-23														
REDFORD IRON ORE PROJECT										Hole Length: 222.56				
Segment Start Depth: 174.14										Segment End Depth: 217.68				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
180		Mb	Marble, massive, as above											
185	BC	And	Andesite porphyry, dark grey altered groundmass with up to 20% plag, 1-4mm; trace py; becomes light grey/tan at 190.8-191.9 and 193.1-194.03 4mm py vein along calcite vein at 40 deg TCA @191m Locally high pyrr at 192.1-192.6											
190														
195		Mt	Magnetite, massive in zones; also mottled with diopside; py along fractures, 2-3% along with ep, sericite, and talc	75							14666	192	193	6
												14667	193	194
											14668	194	195	68.8
											14669	195	196	78.2
											14670	196	197	69.8
				50	5	0	0	0	0	0	14671	197	198	50.2
											14672	198	199	25.8
200		Sk	Skarn, mottled di/gt interspersed with zones of mottled di/mt (up to 45% mt)								14673	199	200	19.5
												14674	200	201
				30	3	0	0	0	0	0	14675	201	202	0.4
											14676	202	203	2.4
	BC			45	3	0	0	0	0	0	14677	203	204	0.3
											14678	204	205	5.5
205		Sk	Andesite, silicified, aphanitic groundmass with 10-12% <1mm hb and 10% 1-2mm plag; trace py (1%)	65	3	0	0	0	0	0	14679	205	206	19.2
					20	3	0	0	0	0	0	14680	206	207
				40	3	0	0	0	0	0	14681	207	208	29.5
											14682	208	209	30.6
210		And	Skarn, primarily garnet, with lesser diopside; flow banded texture with some mottling EOH	25	2	0	0	0	0	0	14683	209	210	29.6
												14684	210	211
											14685	211	212	2.8
215		And												
		Sk												

Scale 1:300

03/19/12

17:05:03

Hole Name: RD11-23															
REDFORD IRON ORE PROJECT											Hole Length: 222.56				
Segment Start Depth: 217.68											Segment End Depth: 261.22				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
-220		Sk	Skarn, primarily garnet, with lesser diopside; flow banded texture with some mottling EOH												
-225															
-230															
-235															
-240															
-245															
-250															
-255															
-260															
Scale 1:300			03/19/12					17:05:03							

Hole Name: RD11-22															
REDFORD IRON ORE PROJECT											Hole Length: 142.38				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		OB													
10			Andesite with grey fine grained groundmass and dessicated plag and hb phenos. Calcite veinlets 30 tca and calcite replacement throughout core. Py (15%) cubic and disseminated throughout as well as in blebs along fracture planes.												
15			24.41m, 10cm band of apy (25%) along fracture planes. 27.8-28m, fault with gouge												
20				15	0	0	0	0	0	0					
25		And	Altered basalt with aphanitic hb and calcite veins/veinlets. Minor epidote alteration associated with veining. Areas of groundmass are mottled brown most likely due to biotite alteration. Core is very blocky.	0	0	0	25	0	0						
30	FLTG		30.63-35.67m, Py along fracture planes and dissmeninated throughout core 5%, apy at 33.52m 5%. 32.28m, slick n slide. 46-51m, veining at 40 tca.	15	0	0	0	0	0						
35		Bs	69-76m, basalt has undergone low grade alteration becoming a bleached greyish color with areas being highly silicious. Core is also brecciated in areas with calcite infilling as well as in veins. Py (30%) is within areas of brecciation and as stringers parallel to core axis. Alteration is most likely due to underlying skarn.	5	0	0	5	0	0						
40															
Scale 1:300				03/19/12				17:05:20							

Hole Name: RD11-22															
REDFORD IRON ORE PROJECT										Hole Length: 142.38					
Segment Start Depth: 43.54										Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45		Bs	<p>Altered basalt with aphanitic hb and calcite veins/veinlets. Minor epidote alteration associated with veining. Areas of groundmass are mottled brown most likely due to biotite alteration. Core is very blocky.</p> <p>30.63-35.67m, Py along fracture planes and disseminated throughout core 5%, apy at 33.52m 5%. 32.28m, slick n slide. 46-51m, veining at 40 tca. 69-76m, basalt has undergone low grade alteration becoming a bleached greyish color with areas being highly silicious. Core is also brecciated in areas with calcite infilling as well as in veins. Py (30%) is within areas of brecciation and as stringers parallel to core axis. Alteration is most likely due to underlying skarn.</p>												
50															
55															
60															
65															
70					30	0	0	0	0	0					
75															
80		And	Highly altered andesite, very fine grained light grey groundmass with 1-3 mm plag and aphanitic hb phenos. Core has been silicified. Py disseminated throughout 2%.												
85		Bs	Highly altered basalt same as described above. Py (30%) cubic and throughout core and along veinlets.												
85				30	0	0	0	0	0	0					

Scale 1:300

03/19/12

17:05:20

Hole Name: RD11-22														
REDFORD IRON ORE PROJECT										Hole Length: 142.38				
Segment Start Depth: 87.07										Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
90		Bs	Highly altered basalt same as described above. Py (30%) cubic and throughout core and along veinlets.		30	0	0	0	0	0				
		And	Altered porphyritic andesite, light grey fine grained groundmass with 1-2mm plag phenos and 2-5mm calcite phenos. Rare dessicated hb phenos throughout.											
95		Bs	Highly altered basalt same as above taking on more skarn like texture down hole. Large cubic py along fracture planes, as blebs and disseminated throughout core 20%.		20	0	0	0	0	0				
			95.2-95.55m, pyr is infilling fracture as well as along veinlets 15%.		20	15	0	0	0	0	0			
100		Sk	Diopside (40%) skarn mottled with bleached rhodochrosite? (20%) grading into garnet (15%). Minor epidote and purple fluorite alteration throughout and along calcite veins and veinlets. Cubic Py along fracture planes and throughout core 5%.		5	0	0	0	0	0	14701	99	100	0.4
		Mt	Impure magnetite (60%) mottled with diopside alteration with rare calcite veinlets at 90 tca. Pyr (15%) is present along veinlets at contact with skarn.	60	0	15	0	0	0	0	14702	100	101	43.3
105		And	Altered porphyritic andesite with green fine grained groundmass and plag phenos 2-3mm. Calcite veinlets and replacement throughtout as well as associated epidote and fluorite alteration.	50	0	15	0	0	0	0	14704	101	102	55.4
			103.32-103.56m, band of Mt (50%) mottled with diopside alteration. Pyr is present along veinlets 15%.		5	0	0	0	0	0	14705	102	103	32.7
110		Mt	103.56-105.89m, py disseminated throughout and as blebs along fracture planes 5%.								14706	103	104	14
			Impure magnetite (85%) mottled with diopside alteration and calcite veinlets. Chlorite and serpentinized along fracture planes.	85								14707	105	106
115		Mt	111-115.32m, alteration increases with garnet blebs becoming present from 114.7-115.32m. Mt 60%.								14708	106	107	79
			112.56-112.95m, andesite dyke, grey fine grained groundmass with dessicated plag and hb phenos, Pyr (5%) is present along veining at contact at 40 tca.									14709	107	108
120	FLTG	Sk	119-119.2m, unit ends with small fault, pulverized core and gouge.								14710	108	109	85.4
			Diopside (80%) skarn mottled with garnet (10%) and rhodochrosite (10%). Some calcite veins/veinlets and associated epidote alteration.									14711	109	110
125	FLTG	Sk	124.09m, 10 cm fault gouge.								14712	110	111	81.6
			129.5-132m, blebs of Mt (15%) within skarn.									14713	111	112
130			136-137.5m, blebs of Mt (10%) within skarn.		0	5	0	0	0	0	14714	112	113	29.7
			137.83m to end of unit, skarn becomes garnet dominated (90%) with calcite veinlets at random orientation.									14715	113	114
130			142.38 EOH.	15							14716	114	115	43.1
												14717	115	116
											14718	116	117	89.6
											14719	117	118	88.8
											14720	118	119	91.6
											14721	119	120	17
											14722	129	130	0.9
											14724	130	131	0.7

Scale 1:300

03/19/12

17:05:20

Hole Name: RD11-22															
REDFORD IRON ORE PROJECT										Hole Length: 142.38					
Segment Start Depth: 130.61										Segment End Depth: 174.14					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
		Sk		15							14724	130	131	0.7	
												14725	131	132	0.5
-135				Diopside (80%) skarn mottled with garnet (10%) and rhodochrosite (10%). Some calcite veins/veinlets and associated epidote alteration.	10							14726	136	137.5	1.5
-140			124.09m, 10 cm fault gouge. 129.5-132m, blebs of Mt (15%) within skarn. 136-137.5m, blebs of Mt (10%) within skarn.												
			137.83m to end of unit, skarn becomes garnet dominated (90%) with calcite veinlets at random orientation.												
-145			142.38 EOH.												
-150															
-155															
-160															
-165															
-170															
Scale 1:300			03/19/12					17:05:20							

Hole Name: RD11-21															
REDFORD IRON ORE PROJECT											Hole Length: 228.66				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		OB	Altered basalt, fine grained with aphanitic hb phenos and biotite alteration of groundmass with calcite veins and veinlets at random orientation. Poss epidote alteration associated with veining/veinlets.  16.24-16.56m, Py trace, cpy 2% 16.56-18.51m, area of deformation with increase in calcite and epidote? Low grade alteration and offsets. Py disseminated throughout 15%, trace apy. 23.3-24.26m, Silicious andesite dyke with light grey fine grained groundmass and dessicated plag phenos. Rare aphanitic hb. 26.85-33m, Py 5% as blebs increasing to 20% along fracture planes from 27.44-30.64m.												
10															
15		Bs	Andesite dyke, grey fine grained ground mass with dessicated plag and hb phenos with some calcite replacement. Apy 5% along veinlets at 30tca and stringers. Py also present along some veinlets 2%.  39.63-40m, rubbly core of mixed lithology, most likely due to reaming and conditioning of hole. 40.1m, py 10% as blebs along fracture plane.	1	0	5	0	0	0	0					
20					15	0	0	1	0	0					
25		Bs	Basalt, same as above with intermitted areas of coarser grained remineralize basalt with plag (50%) and hb (40%) phenos most likely due to low grade alteration and deformation.	5	0	0	0	0	0	0					
30					20	0	0	0	0	0					
35			48.5m, marcasite blebs along fracture plane 15% 48.78-49.47m, py cubic 1-2 mm and disseminated along fracture planes. 53.1-55m, purple fluorite present along veins and as stringers with associated epidote alteration of calcite. 56.46m, 3cm brecciated calcite vein? with inclusions of basalt within at 30 tca.	5	0	0	0	0	0	0					
40		And	61-75.3m, basalt becomes bleached, silicious and highly altered. Core has skarn like texture with diopside and rhodochrosite alteration and inclusions of unaltered basalt, alteration most likely due to underlying skarn. At 69.5 to 70.1m stages of alteration can be seen. An inclusion of unaltered basalt shows gradual alteration to coarser grained basalt with plag and hb phenos to diopside and rhodochrosite.	2	0	0	0	0	0	0					
		Bs													
Scale 1:300			03/19/12					17:05:35							



Hole Name: RD11-21															
REDFORD IRON ORE PROJECT										Hole Length: 228.66					
Segment Start Depth: 43.54										Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45		Bs													
50			Basalt, same as above with intermitted areas of coarser grained remineralize basalt with plag (50%) and hb (40%) phenos most likely due to low grade alteration and deformation.		10	0	0	0	0	0					
55			48.5m, marcasite blebs along fracture plane 15% 48.78-49.47m, py cubic 1-2 mm and disseminated along fracture planes. 53.1-55m, purple fluorite present along veins and as stringers with associated epidote alteration of calcite.												
60			56.46m, 3cm brecciated calcite vein? with inclusions of basalt within at 30 tca. 61-75.3m, basalt becomes bleached, silicious and highly altered. Core has skarn like texture with diopside and rhodochrosite alteration and inclusions of unaltered basalt, alteration most likely due to underlying skarn. At 69.5 to 70.1m stages of alteration can be seen. An inclusion of unaltered basalt shows gradual alteration to coarser grained basalt with plag and hb phenos to diopside and rhodochrosite.												
75			Garnet (70%) dominated mottled with diopside (30%) and minor epidote (5%) as well as rare chlorite/calcite blebs												
80		Sk	Coarse to medium grained light grey/white marble with calcite veinlets and fracture veining at random orientation.												
85		Mb	86.05m, 10cm of fine grained andesite. 99-99.2m, altered intrusion, chloritized and serpentinized with disseminated py 10% and pyr 10% as blebs. 100.72 to end of unit, talc veining becomes present in core 30 tca.												
Scale 1:300			03/19/12					17:05:36							

Hole Name: RD11-21															
REDFORD IRON ORE PROJECT										Hole Length: 228.66					
Segment Start Depth: 87.07										Segment End Depth: 130.61					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
90		Mb	Coarse to medium grained light grey/white marble with calcite veinlets and fracture veining at random orientation.												
95			86.05m, 10cm of fine grained andesite. 99-99.2m, altered intrusion, chloritized and serpentinized with disseminated py 10% and pyr 10% as blebs. 100.72 to end of unit, talc veining becomes present in core 30 Altered porphyritic andesite dyke with dessicated hb and plag phenos. Plag phenos are forming alteration halos around calcite veining. Py 10% along veinlets and as blebs along fracture planes.												
100				105.5m, 20cm intrusion of garnet skarn. 105.7m, andesite become unaltered with hb lathes 1-2 mm (20%), dessicated plag phenos in light grey fine grained marble as described above.	10	10	0	0	0	0	0				
105		And	107.43-107.9m, faulted talc-altered dyke?, pulverized and Porphyritic andesite with dessicated plag (30%) and hb phenos (15%) in light grey groundmass, some calcite replacement of plag as well. 10% apy along veinlets and disseminated throughout, py 15% along fracture planes.	10	0	0	0	0	0	0					
110	FLTG-0	Mb	117.3-120.2m, andesite becomes altered with some biotite alteration of groundmass, epidote and calcite veinlets. 118.33-120.4m, pyr 2% and py 2% along veinlets 30tca. 121.53 to end of unit, andesite becomes very altered taking on skarn like texture.												
115		And	Garnet (50%), diopside (30%) skarn with calcite veins 40 tca with minor associated epidote alteration 1%. 122.33m, 16cm band of Mt (30%) mixed with skarn with py 15% along veinlets at 60 tca.	15	0	0	0	10	0	0					
120			Medium to coarse grained marble as described above. 124.6-125m, altered andesite dyke, very fine grained grey groundmass with 5% hb lathes 1mm in size and calcite veinlets/alteration. Py 5% along fracture planes.	2	2	0	0	0	0	0					
125		Sk	125.1m, 5cm of vuggy core. 126.95, 10cm of alteration with talc, chlorite and calcite mixed with marble, py cubic and disseminated throughout.	30	15	0	0	0	0	0	14501	122	123	4.3	
125		Mb	127.34-127.75m, bands of garnet skarn mixed with marble. 127.88-128.67m, intursion of diopside (40%), garnet (30%) skarn with blebs of Mt (30%) mixed throughout as well as pyr 20%.	5	0	0	0	0	0	0					
130			129.62-129.88m, Band of garnet skarn with Mt (20%) skarn. 131.1-136.32m, green talc veining and veinlets 40 tca. 140.6-141.1m, unit ends with intrusion of garnet skarn.	5	0	0	0	0	0	0	14502	127	128	0.8	
				30	0	20	0	0	0	0	14503	128	129	7.1	
				20							14505	129	130	7.6	

Scale 1:300

03/19/12

17:05:36

Hole Name: RD11-21															
REDFORD IRON ORE PROJECT											Hole Length: 228.66				
Segment Start Depth: 130.61											Segment End Depth: 174.14				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
135		Mb	Medium to coarse grained marble as described above.												
140			124.6-125m, altered andesite dyke, very fine grained grey groundmass with 5% hb lathes 1mm in size and calcite veinlets/alteration. Py 5% along fracture planes. 125.1m, 5cm of vuggy core.								14506	140	141	0.2	
	FLTG		126.95, 10cm of alteration with talc, chlorite and calcite mixed with marble, py cubic and disseminated throughout.								14507	141	142	53.6	
			127.34-127.75m, bands of garnet skarn mixed with marble.								14508	142	143	69	
			127.88-128.67m, intursion of diopside (40%), garnet (30%) skarn with blebs of Mt (30%) mixed throughout as well as pyr 20%.								14509	143	144	24	
145			129.62-129.88m, Band of garnet skarn with Mt (20%) skarn.								14510	144	145	78	
			131.1-136.32m, green talc veining and veinlets 40 tca.								14511	145	146	85	
			140.6-141.1m, unit ends with intrusion of garnet skarn.								14512	146	147	79.8	
				90							14513	147	148	79	
											14514	148	149	48.8	
150											14515	149	150	79.4	
											14516	150	151	83.6	
											14517	151	152	86.2	
											14518	152	153	84.6	
	FLT-	Mt	Massive Mt (90%) with some epidote and diopside alteration and calcite veins/veinlets. Fracture planes are chloritized and serpentinized.								14519	153	154	78.2	
155				50							14520	154	155	66.4	
			141.1-144.5m, fault, broken/pulverized core with gouge.								14521	155	156	2.3	
	FLT-		154.2-154.9m, fault								14522	156	157	34.6	
			157.5-158.24m, fault								14523	157	158	36.1	
			155-156.4m, increase in alteration, Mt (50%).								14524	158	159	70	
160			156.67 to end of unit, graphite becomes present within Mt.								14525	159	160	83.2	
			157.52m, 10cm of gouge with hem 2%.								14526	160	161	89.4	
				90							14527	161	162	83.8	
											14528	162	163	85	
			Andesite dyke, fine grained grey groundmass with dessicated plag (40%) phenos and hb lathes(10%) 1-2mm.								14529	163	164	74.6	
165		And	Core is broken and rubbly.								14530	164	165	59.4	
											14531	165	166	0.6	
											14532	166	167	15.4	
											14533	167	168	70	
			Faulted massive Mt (70%) mottled with diopside and chlorite? alteration, calcite veinlets at random orientation. Chloritized and serpentinized along fracture planes. Rubbly core with areas of gouge.								14534	168	169	87	
170				70							14535	169	170	86.6	
	FLTG	Mt									14536	170	171	86.4	
											14537	171	172	75	
			180.12-183.3m, increase in alteration minerals, Mt (50%).								14538	172	173	84	
											14539	173	174	81.6	
											14540	174	175	83.4	

Scale 1:300

03/19/12

17:05:36



Hole Name: RD11-21																
REDFORD IRON ORE PROJECT										Hole Length: 228.66						
Segment Start Depth: 217.68							Segment End Depth: 261.22									
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
220		Sk	Garnet (80%), diopside (20%) skarn with calcite veins/veinlets and minor epidote stringers at random orientations.  196-199.5m, blebs of Mt (25%) mixed within skarn. 197.24-202.63m, fault broken/pulverized core with gouge. 211.4-219.68m, blebs of Mt (40%) mixed within skarn with py along veinlets and throughout core as blebs (10%), 30 tca and marcasite along fracture planes 219.68-221.45m, blebs of Mt (15%). 225.7m, 20cm fault 225.9-226.24m epidote veins within skarn at 75tca.  228.66 EOH.	40	10	0	0	0	0	0	14576	217	218	5.2		
													14577	218	219	13.9
													14578	219	220	5.5
													14579	220	221	4.1
											14580	221	222	4.4		
225	FLT-															
230																
235																
240																
245																
250																
255																
260																

Scale 1:300

03/19/12

17:05:36

Hole Name: RD11-20															
REDFORD IRON ORE PROJECT										Hole Length: 249.70					
Segment Start Depth: 0.00										Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		OB													
10															
15															
20	FLTG														
25	FLT	Bs	Basalt, dark grey to black; aphanitic with zones of coarser remineralization and biotite alteration of groundmass; minor to moderate calcite veinlets with veinlet-sourced bleaching (up to 4mm halo); trace py (<5%) 16.35, 13cm andesite dyke 17.15-17.65, andesite dyke												
30															
35	FLT														
40	FLT	And	Andesite porphyry with large clusters of plag and hb (2-4mm), 20%; silicified groundmass, grey-green in colour; becomes darker with depth (pyroxene alteration?); grades into altered basalt by 56.10. Py up to 1%, disseminated	2	0	0	0	0	0	0					
	FLT														

Scale 1:300

03/19/12

17:05:48

Hole Name: RD11-20															
REDFORD IRON ORE PROJECT										Hole Length: 249.70					
Segment Start Depth: 43.54										Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45	FLT	And	Andesite porphyry with large clusters of plag and hb (2-4mm), 20%; silicified groundmass, grey-green in colour; becomes darker with depth (pyroxene alteration?); grades into altered basalt by 56.10. Py up to 1%, disseminated												
50															
55		Bs	Altered basalt, as above with increasing biotite alteration of groundmass and larger bleaching halos; texture becomes mottled near basal contact; unit ends in pulverized fault												
60	BC			2	0	0	0	0	0						
65															
70															
75															
80		And	Andesite, 15% 1-3mm plag with up to 10% hb <1mm; aphanitic grey-green groundmass; 1-2% diss Py; iron staining along fractures Plag phenos increase in size to 3mm locally between 84-92m; py also increases to 3% in this zone Beyond 92m, plag is 2-4mm; hb is 1-3mm; sharp basal contact with lower unit												
85	BC			3	0	0	0	0	0						

Scale 1:300

03/19/12

17:05:48

Hole Name: RD11-20															
REDFORD IRON ORE PROJECT										Hole Length: 249.70					
Segment Start Depth: 87.07										Segment End Depth: 130.61					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
90	BC	And	Andesite, 15% 1-3mm plag with up to 10% hb <1mm; aphanitic grey-green groundmass; 1-2% diss Py; iron staining along fractures Plag phenos increase in size to 3mm locally between 84-92m; py also increases to 3% in this zone Beyond 92m, plag is 2-4mm; hb is 1-3mm; sharp basal contact with lower unit		3	0	0	0	0	0					
95															
100															
105		Mb	Marble, heavily mottled with skarn alteration, primarily diopside with heavy epidote and hedenbergite? stringers Occasional isolated py blebs within first 2m of unit (2-5%); becomes heavily silicified at depth, decreased HCl rxn beyond 123m 117.2-118, garnet skarn dyke		1	0	0	0	0	0					
110															
115															
120		And	Andesite, two phases of alteration: 128.02-131.15, skarn-altered, heavily silicified with plag-feric porphyry; plag and hb clusters 2-5mm, up to 20%; black pyroxene altered groundmass alternating with zones of veinlet-sourced bleaching; py in isolated veinlets, 1% 131.15-135.85, light grey-green aphanitic groundmass with 10% <1mm hb and 12% 1-2mm plag with trace diss py		3	0	0	0	0	0					
125															
130					1	0	0	0	0	0					

Scale 1:300

03/19/12

17:05:48



Hole Name: RD11-20															
REDFORD IRON ORE PROJECT										Hole Length: 249.70					
Segment Start Depth: 130.61										Segment End Depth: 174.14					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
135		And	<p>Andesite, two phases of alteration:  128.02-131.15, skarn-altered, heavily silicified with plag-pheric porphyry; plag and hb clusters 2-5mm, up to 20%; black pyroxene altered groundmass alternating with zones of veinlet-sourced bleaching; py in isolated veinlets, 1%  131.15-135.85, light grey-green aphanitic groundmass with 10% &lt;1mm hb and 12% 1-2mm plag with trace diss py</p>		1	0	0	0	0	0					
140															
145	FLTG														
145	FLTG														
150															
155		Mb	<p>Marble, massive, coarse crystalline, light grey-white to dark grey; mottled di/ep skarn (30%) beyond 171m, excluding skarn dykes  146.67-147.18, diopside skarn dyke with darker px and garnet veins  147.83-148.54, andesite porphyry dyke with 12% plag, 1-2mm and altered brown biotite? groundmass  166.1-166.95, diopside skarn dyke (70% di, 15% gn)  171.44-172.17, 173.89-174.22, di/gn skarn, 40% and 45% respectively</p>												
160															
165															
170															
											14601	173	174	0.5	
											14602	174	175	51.4	

Scale 1:300

03/19/12

17:05:48

Hole Name: RD11-20																		
REDFORD IRON ORE PROJECT							Hole Length: 249.70											
Segment Start Depth: 174.14							Segment End Depth: 217.68											
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct				
-180	FLT	Mt	Marble, massive, coarse crystalline, light grey-white to dark grey; mottled di/ep skarn (30%) beyond 171m, excluding skarn dykes 146.67-147.18, diopside skarn dyke with darker px and garnet veins 147.83-148.54, andesite porphyry dyke with 12% plag, 1-2mm and altered brown biotite? groundmass 166.1-166.95, diopside skarn dyke (70% di, 15% gn) 171.44-172.17, 173.89-174.22, di/gn skarn, 40% and 45% respectively	90								14602	174	175	51.4			
-185	BC	Mt		85														
-190		Mt		65														
-195		Mt		95														
-200		Mt	Massive magnetite with minor to moderate epidote and diopside stringers throughout; trace py in small localized blebs; skarn minerals increase beyond 216m and texture becomes mottled; serpentine and chlorite along some fracture planes 227.88-229.16, skarn content>50% 229.16-229.62, altered andesite dyke, heavily silicified Unit grades into full skarn by 231.96m	95	2	0	0.5	0	0	0								
-205		Mt		95														
-210		Mt		80														
-215		Mt		85														
Scale 1:300				03/19/12				17:05:48										

Hole Name: RD11-20														
REDFORD IRON ORE PROJECT										Hole Length: 249.70				
Segment Start Depth: 217.68										Segment End Depth: 261.22				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
-220		Mt	Massive magnetite with minor to moderate epidote and diopside stringers throughout; trace py in small localized blebs; skarn minerals increase beyond 216m and texture becomes mottled; serpentine and chlorite along some fracture planes 227.88-229.16, skarn content>50% 229.16-229.62, altered andesite dyke, heavily silicified Unit grades into full skarn by 231.96m	70							14647	217	218	54
													14648	218
-225	BC	Mt	Massive magnetite with minor to moderate epidote and diopside stringers throughout; trace py in small localized blebs; skarn minerals increase beyond 216m and texture becomes mottled; serpentine and chlorite along some fracture planes 227.88-229.16, skarn content>50% 229.16-229.62, altered andesite dyke, heavily silicified Unit grades into full skarn by 231.96m	60							14649	219	220	68
													14650	220
-225		Mt	Massive magnetite with minor to moderate epidote and diopside stringers throughout; trace py in small localized blebs; skarn minerals increase beyond 216m and texture becomes mottled; serpentine and chlorite along some fracture planes 227.88-229.16, skarn content>50% 229.16-229.62, altered andesite dyke, heavily silicified Unit grades into full skarn by 231.96m	75							14651	221	222	71.4
													14652	222
-230	FLT-C	Mt	Massive magnetite with minor to moderate epidote and diopside stringers throughout; trace py in small localized blebs; skarn minerals increase beyond 216m and texture becomes mottled; serpentine and chlorite along some fracture planes 227.88-229.16, skarn content>50% 229.16-229.62, altered andesite dyke, heavily silicified Unit grades into full skarn by 231.96m								14653	223	224	64.8
													14654	224
-230		Mt	Massive magnetite with minor to moderate epidote and diopside stringers throughout; trace py in small localized blebs; skarn minerals increase beyond 216m and texture becomes mottled; serpentine and chlorite along some fracture planes 227.88-229.16, skarn content>50% 229.16-229.62, altered andesite dyke, heavily silicified Unit grades into full skarn by 231.96m	80							14656	225	226	61.6
													14657	226
-235		Sk	Skarn, initially rich in diopside and darker green-black px (hendenbergite?); becomes garnet-rich beyond 238m.  242.08, isolated mt stringer 242.33, 15cm isolated blot of magnetite within the skarn Texture appears to become flow banded between 246-247m EOH	30							14658	227	228	65.6
				10									14659	228
-235	FLT-C	Sk	Skarn, initially rich in diopside and darker green-black px (hendenbergite?); becomes garnet-rich beyond 238m.  242.08, isolated mt stringer 242.33, 15cm isolated blot of magnetite within the skarn Texture appears to become flow banded between 246-247m EOH	10							14660	229	230	7.8
													14661	230
-240	FLT-C	Sk	Skarn, initially rich in diopside and darker green-black px (hendenbergite?); becomes garnet-rich beyond 238m.  242.08, isolated mt stringer 242.33, 15cm isolated blot of magnetite within the skarn Texture appears to become flow banded between 246-247m EOH	55							14662	231	232	51.6
													14663	232
-245	BC	Sk	Skarn, initially rich in diopside and darker green-black px (hendenbergite?); becomes garnet-rich beyond 238m.  242.08, isolated mt stringer 242.33, 15cm isolated blot of magnetite within the skarn Texture appears to become flow banded between 246-247m EOH	10							14664	233	234	0.3
-250														
-255														
-260														

Scale 1:300

03/19/12

17:05:49

Hole Name: RD11-19																
REDFORD IRON ORE PROJECT											Hole Length: 139.02					
Segment Start Depth: 0.00											Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
5		OB	Altered basalt grey/green silicious groundmass with mm scale hb (30%) and plag (10%) phenos. Calcite veins 60 tca and veinlets at random orientation with associated epidote alteration. Some biotite alteration? Within groundmass, rare disseminated py and marcasite blebs throughout and along fracture planes													
10			12.20-32.15m, Py disseminated throughout up to 3%, marcasite present along fracture planes 10%. 15.62m, 20cm band of highly silicious very fine grained andesite. Light grey groundmass with plag phenos (5%) and hb phenos (2%).													
15		Bs	Andesite, light grey fine grained groundmass, dessicated plag phenos and rare hb (2%). Py cubic and disseminated throughout, 5% along fracture planes.	3	0	0	0	0	0	0						
20			Basalt same as above, becoming more porphyritic downhole and less silious with increased biotite alteration within the groundmass?													
25			68.83-69.77m, Band of very fine grained light grey andesite. 70-71.2m, increase py (15%) along veinlets, pyr (20%) disseminated throughout, marcasite 15% along fracture planes.	5	0	0	0	0	0	0						
30		And	71.58-74.16m, Altered basalt becomes very silious as well as bleached.													
35			74.16-76.55m, pyr 15%, py 10% along veins and marcasite 10% as blebs along fracture planes.													
40		Bs	76.55-79.59m, Altered bleached basalt, same as above.	1	0	0	0	0	0	0						
Scale 1:300			03/19/12					17:06:03								

Hole Name: RD11-19															
REDFORD IRON ORE PROJECT										Hole Length: 139.02					
Segment Start Depth: 43.54										Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45		Bs	Basalt same as above, becoming more porphyritic downhole and less silious with increased biotite alteration within the groundmass?												
50			68.83-69.77m, Band of very fine grained light grey andesite. 70-71.2m, increase py (15%) along veinlets, pyr (20%) disseminated throughout, marcasite 15% along fracture planes.												
55			71.58-74.16m, Altered basalt becomes very silious as well as bleached. 74.16-76.55m, pyr 15%, py 10% along veins and marcasite 10% as blebs along fracture planes. 76.55-79.59m, Altered bleached basalt, same as above.	1	0	0	0	0	0						
60			Garnet (70%) dominated skarn mottled with 20% diopside and 5% rhodochrosite, epidote (2%) stringers throughout with some calcite veinlets at random orientation.												
65			80.2, 27cm band of skarn with increase epidote alteration (10%) and pyr 20%, py 25% as blebs, cpy 2% and trace apy. 80.47-80.92m, blebs of pyr (5%) within skarn as well as 2% cpy and trace py. 81.75-83.7m, fault with gouge. Some core loss. 85.37m, 15cm of chlorite/septenized gouge. 85.52-86.76m, bleached skarn with 30% Mt along veins, fracture infilling and as bands. Cpy 5% along veinlets and pyr 2%.	15	20	0	0	0	0						
70			Fine to medium grained light grey marble with epidote bands and veining at 60 tca, also along fracture planes mixed with calcite and poss chlorite.	1	0	0	0	0	0						
75			87.53m, vein of hem (2%) with associated epidote alteraton at 60tca.	10	15	0	0	0	0						
80	FLT		88.7, 13cm band of choatic Mt (15%), hem 7%, 5% pyr and 2 % cpy mixed with epidote as well as calcite blebs and veining at random orientation. 90.5-91.05m, garnet skarn intrusions within marble becomes mottled with Mt 20% at 90.75m mark as well as pyr 10%, cpy 10% and 2% py throughout. 91.17m, 5cm band of Mt (40%), cpy 5%	1	0	0	0	0	0			14451	80	81	1.1
85			Sk		30	0	2	5	0	0		14452	85	86	5.3
			Mb									14453	86	87	10.4
											14454	87	88	6.2	

Scale 1:300

03/19/12

17:06:03

Hole Name: RD11-19														
REDFORD IRON ORE PROJECT										Hole Length: 139.02				
Segment Start Depth: 87.07										Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
90	FLTG-C	Mb	Fine to medium grained light grey marble with epidote bands and veining at 60 tca, also along fracture planes mixed with calcite and poss chlorite.	15	0	5	2	0	0	7	14454	87	88	0.2
			87.53m, vein of hem (2%) with associated epidote alteraton at 60tca.	20	2	10	10	0	0	0	14455	88	89	3.4
			88.7, 13cm band of choatic Mt (15%), hem 7%, 5% pyr and 2 % cpy mixed with epidote as well as calcite blebs and veining at random orientation.	40	6	0	5	0	0	0	14456	89	90	0.1
			90.5-91.05m, garnet skarn intrusions within marble becomes mottled with Mt 20% at 90.75m mark as well as pyr 10%, cpy 10% magnetite (70%) mixed with skarn and marble intrusions throughout with 10% hem along veinlets and fracture planes. Pyr 10%, py and cpy 5%	70	10	30	20	0	0	0	14457	90	91	6.7
			91.46-92.65m, Increase in sulfide content, pyr 30% in some areas, cpy 20%, py veining (10%) at 70 tca as well as throughout core.	70	10	10	5	0	0	0	14458	91	92	17.9
95	FLTG-C	Mt	93.34-93.67m, fault with pulverized core and gouge. Soft Altered basalt with skarn like texture, plag phenos (20%) 2-4 mm in length. Calcite veining at 50 tca with associated minor epidote alteration along some veins and veinlets. Calcite, chlorite and poss serpentine along fracture planes.	85	0	0	0	0	0	5	14459	92	93	35.4
			96.7-99.3m, garnet veining and veinlets at random orientation. 101.45-101.83m, garnet (50%) skarn intursion mottled with diopside (30%), epidote (10%) and calcite	85	0	0	0	0	0	5	14460	93	94	52
			Massive magnetite (85%) with minor epidote and possible diopside alteration. Hem 5% as blebs throughout and along fracture planes.	10							14462	94	95	46.4
			105.04-105.6m, fault with pulverized core and gouge. Sharp contact with fine grained light grey marble intrusion with 10% Mt as bands throughout.	10							14463	95	96	43.7
			Basalt with dark grey fine grained ground mass and mm scale hb and plag phenos. Calcite veins and veinlets 50tca throughout with minor associated epidote alteration. Calcite and epidote are also present along fracture planes.	10							14464	96	97	56
110	FLTG-C	Mb	Massive magnetite (90%) with minor epidote and poss diopside alteration. Py 5% as blebs throughout as well as 2% pyr and 2% cpy.	10							14465	97	98	14.2
			105.04-105.6m, fault with pulverized core and gouge. Sharp contact with fine grained light grey marble intrusion with 10% Mt as bands throughout.	10							14466	104	105	40.5
			Basalt with dark grey fine grained ground mass and mm scale hb and plag phenos. Calcite veins and veinlets 50tca throughout with minor associated epidote alteration. Calcite and epidote are also present along fracture planes.	10							14467	105	106	76.4
			Massive magnetite (90%) with minor epidote and poss diopside alteration. Py 5% as blebs throughout as well as 2% pyr and 2% cpy.	10							14468	106	107	80.4
			115.85-117.66m, skarn intursion with 60% epidote and 30% garnet. Mt is mixed throughout 30% with trace py 2%.	10							14469	107	108	82.6
115	FLTG-C	Bs	118.48, 10cm of Mt gouge.	10							14470	108	109	81.2
			122.6-123.25m, fault with pulverized core and gouge. Diopside (50%) dominated skarn with 30% garnet and mixed with Mt 30%. Epidote present along fracture planes as well as slicken slides.	10							14471	109	110	9.1
			Massive magnetite (90%) with minor epidote and poss diopside alteration. Py 5% as blebs throughout as well as 2% pyr and 2% cpy.	10							14472	110	111	4.7
			115.85-117.66m, skarn intursion with 60% epidote and 30% garnet. Mt is mixed throughout 30% with trace py 2%.	10							14473	114	115	3.6
			122.6-123.25m, fault with pulverized core and gouge. Diopside (50%) dominated skarn with 30% garnet and mixed with Mt 30%. Epidote present along fracture planes as well as slicken slides.	10							14474	115	116	73
120	FLTG-C	Mt	118.48, 10cm of Mt gouge.	30	2	0	0	0	0	0	14475	116	117	26.5
			Massive magnetite (90%) with minor epidote and poss diopside alteration. Py 5% as blebs throughout as well as 2% pyr and 2% cpy.	30	2	0	0	0	0	0	14476	117	118	35.6
			115.85-117.66m, skarn intursion with 60% epidote and 30% garnet. Mt is mixed throughout 30% with trace py 2%.	30	2	0	0	0	0	0	14477	118	119	67.8
			122.6-123.25m, fault with pulverized core and gouge. Diopside (50%) dominated skarn with 30% garnet and mixed with Mt 30%. Epidote present along fracture planes as well as slicken slides.	30	2	0	0	0	0	0	14478	119	120	85
			Massive magnetite (90%) with minor epidote and poss diopside alteration. Py 5% as blebs throughout as well as 2% pyr and 2% cpy.	30	2	0	0	0	0	0	14479	120	121	89.4
125	FLTG-C	Sk	115.85-117.66m, skarn intursion with 60% epidote and 30% garnet. Mt is mixed throughout 30% with trace py 2%.	30	5	2	2	0	0	0	14480	121	122	69.6
			122.6-123.25m, fault with pulverized core and gouge. Diopside (50%) dominated skarn with 30% garnet and mixed with Mt 30%. Epidote present along fracture planes as well as slicken slides.	30	5	2	2	0	0	0	14482	122	123	64.8
			Massive magnetite (90%) with minor epidote and poss diopside alteration. Py 5% as blebs throughout as well as 2% pyr and 2% cpy.	30	5	2	2	0	0	0	14483	123	124	84.6
			115.85-117.66m, skarn intursion with 60% epidote and 30% garnet. Mt is mixed throughout 30% with trace py 2%.	30	5	2	2	0	0	0	14484	124	125	22.4
			122.6-123.25m, fault with pulverized core and gouge. Diopside (50%) dominated skarn with 30% garnet and mixed with Mt 30%. Epidote present along fracture planes as well as slicken slides.	30	5	2	2	0	0	0	14485	125	126	4.3
130	FLTG-C	Mt	118.48, 10cm of Mt gouge.	50							14486	126	127	64
			Massive magnetite (90%) with minor epidote and poss diopside alteration. Py 5% as blebs throughout as well as 2% pyr and 2% cpy.	50							14487	127	128	20.7
			115.85-117.66m, skarn intursion with 60% epidote and 30% garnet. Mt is mixed throughout 30% with trace py 2%.	50							14488	128	129	40.8
			122.6-123.25m, fault with pulverized core and gouge. Diopside (50%) dominated skarn with 30% garnet and mixed with Mt 30%. Epidote present along fracture planes as well as slicken slides.	50							14489	129	130	75.6
			Massive magnetite (90%) with minor epidote and poss diopside alteration. Py 5% as blebs throughout as well as 2% pyr and 2% cpy.	60							14490	130	131	43.4

Scale 1:300

03/19/12

17:06:03

Hole Name: RD11-19																	
REDFORD IRON ORE PROJECT										Hole Length: 139.02							
Segment Start Depth: 130.61										Segment End Depth: 174.14							
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct			
-135	FLTG	Mt	Impure magnetite (50%) mottled with epidote/pyroxene alteration becoming more massive downhole from 130m mark on Mt varies b/w 60-90%.  130.38-132.05m, fault with broken and pulverized core as well as gouge. 133.9-134.67m, hem as blebs along fracture planes 2%.  Andesite with grey fine graine ground mass with descciated plag and hb phenos and iron staining along fracture planes.  135.6-136.13m, band of massive Mt (80%) with some pyroxene alteration an disseminated pyr 20%, py 5%.  139.02m EOH due to driller error, rods stuck, lost bit and sleeve down hole, hole discontinued as reached end of ore zone.	60								14490	130	131	44.4		
													14491	131	132	57.2	
														14492	132	133	41.9
					And	90	0	0	0	0	0	2		14493	133	134	59.6
														14494	134	135	65.8
														14495	135	136	21.2
			80	5	5	20	0	0	0		14496	136	137	11.4			
-140																	
-145																	
-150																	
-155																	
-160																	
-165																	
-170																	
Scale 1:300			03/19/12						17:06:04								

Hole Name: RD11-18

REDFORD IRON ORE PROJECT

Hole Length: 158.50

Segment Start Depth: 0.00

Segment End Depth: 43.54

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
5		OB												
10		OB												
15		OB												
20	FLTG	Bs	Unit starts with altered basalt, dark grey/green ground mass with pl 17.26-19.87m, series of small faults with gouge. 31.47-33.23m, fault with silicified gouge.											
25		Bs	Andesite dyke, grey fine grained groundmass with plag phenos 1-2mm, 30% and hb phenos, mm scale 10%. Calcite present along fracture planes and as veinlets. Py as blebs 3% throughout core and cubic along fracture planes.	1	0	0	0	0	0	0				
30	FLTG	Bs	Altered basalt, fine grained as described above. Chlorite/serpentized along fracture planes and calcite veins at 60 tca. Py trace cubic, disseminated throughout. Marcasite along fracture planes 3%.											
35		Bs	44.9-51.52, increase in py to 10% and marcasite 5%. 46.45, 55cm band of epidote alteration along veins and veinlets. 43.55, 10 cm band with pyr blebs 15%.	3	0	0	0	0	0	0				
40		And												

Scale 1:300

08/26/11

15:34:06



Hole Name: RD11-18

REDFORD IRON ORE PROJECT

Hole Length: 158.50

Segment Start Depth: 43.54

Segment End Depth: 87.07

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45		Bs	Altered basalt, fine grained as described above. Chlorite/serpentized along fracture planes and calcite veins at 60 tca. Py trace cubic, disseminated throughout. Marcasite along fracture planes 3%.  44.9-51.52, increase in py to 10% and marcasite 5%. 46.45, 55cm band of epidote alteration along veins and veinlets. 43.55, 10 cm band with pyr blebs 15%.	0	0	0	0	0	0	0					
50				10	0	0	0	0	0						
60				1	0	0	0	0	0						
65															
70															
75															
80		Sk	Graded contact into bleached diopside skarn (40%) with rhodocrosite (20%) with calcite veining and veinlets at random orientation and relic andesite texture in some areas.												
85		Tn	Graded contact into tonalite, 50% quartz, plag 10%, hb 5%, and anchorite 20%. Calcite veining and veinlets at random orientation, diopside (15%) alteration halos around veining. Core becomes more skarn like towards contact.												

Scale 1:300

08/26/11

15:34:06

Hole Name: RD11-18

REDFORD IRON ORE PROJECT

Hole Length: 158.50

Segment Start Depth: 87.07

Segment End Depth: 130.61

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
90		Tn	Graded contact into tonalite, 50% quartz, plag 10%, hb 5%, and anchorite 20%. Calcite veining and veinlets at random orientation, diopside (15%) alteration halos around veining. Core becomes more skarn like towards contact.		1	0	0	0	0	0				
		Bs		15	0	0	0	0	0					
95		Sk	Altered basalt with fine grained grey/green groundmass mottled with biotite alteration. Plag and hb phenos mm scale. Calcite veins and veinlets at random orientation, py along fracture planes and disseminated within core 15%. <del>bleached skarn same as above</del>		1	0	0	0	0	0				
		Bs		3	0	0	0	0	0					
100	BC	Bs	94.85, 18 cm band of relic diorite. 95.1-97m, marcasite 15% along fracture planes, py 3% disseminated throughout. 100.66-101.3m, massive Mt (75%) with py 30% and pyr 5%, mottled with dark green epidote or poss olivine? As well as calcite alteration.	75	30	5	0	0	0	0	14402	100	101	39.2
												14404	101	102
105		Bs	102.5- 105.7m, py 20% along fracture planes, occasional pyr bleb 3%.	20	3	0	0	0	0	14405	105	106	20.8	
				60						14406	106	107	63.4	
110	FLTG	Mt	Impure magnetite (60%) mottled with white to green alteration mineral (poss chlorite, serpentine?). Minor graphite within unit.	60							14407	107	108	62.4
		14408									108	109	40.1	
110		And	Andesite dyke with very fine grained grey groundmass, mm scale plag phenos and trace hb. Green talc along fracture planes. Py is disseminated throughout 1% as well as iron staining. Impure magnetite (60%), same as above.	60							14409	109	110	25.7
		14410									110	111	64.6	
115		Mt	109.58-111m, fault with gouge. 112m, 5 cm band of hematite (5%) mixed with Mt 114.54m to end of unit, silicified gouge mix with Mt, py 15% and	60							14411	111	112	69.2
											14412	112	113	72
120		Sk	Unit begins with garnet dominated (70%) mottled with diopside (25%) and calcite/chlorite? Minor epidote stringers throughout (5%) and rare cubic py. Changing to diopside dominated (80%) at the 133m mark with minor rhodochrosite throughout. Calcite veining and veinlets at random orientation with associated epidote alteration. Calcite is also present along fracture planes along with chlorite and poss serpentine. 132.37-132.67m, fault, rubbly core with gouge. 142-142.2m, dyke of poss altered tonalite? 143.36-143.66m, andesite dyke, fine grained beige groundmass with mm scale hb phenos. 141.88-148.1m, Skarn becomes increasingly bleached 148.22-151.12m, Mt(30%) blebs and stringer, py 20%, pyr 10% and marcasite 10% 152m to end of unit, garnet (20%) becomes present in core. 158.5 EOH											
130														

Scale 1:300

08/26/11

15:34:06

Hole Name: RD11-18

REDFORD IRON ORE PROJECT

Hole Length: 158.50

Segment Start Depth: 130.61

Segment End Depth: 174.14

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
135	FLTG-d	Sk	<p>Unit begins with garnet dominated (70%) mottled with diopside (25%) and calcite/chlorite? Minor epidote stringers throughout (5%) and rare cubic py. Changing to diopside dominated (80%) at the 133m mark with minor rhodochrosite throughout. Calcite veining and veinlets at random orientation with associated epidote alteration. Calcite is also present along fracture planes along with chlorite and poss serpentine.</p> <p>132.37-132.67m, fault, rubbly core with gouge.                      142-142.2m, dyke of poss altered tonalite?                      143.36-143.66m, andesite dyke, fine grained beige groundmass with mm scale hb phenos.                      141.88-148.1m, Skarn becomes increasingly bleached                      148.22-151.12m, Mt(30%) blebs and stringer, py 20%, pyr 10% and marcasite 10%                      152m to end of unit, garnet (20%) becomes present in core.                      158.5 EOH</p> <p>158.5 EOH</p>													
140																
145																
150																
				30	20	10	0	0	0	0	14415	148	149	0.5		
											14416	149	150	3.5		
											14417	150	151.5	0.8		
155																
160																
165																
170																

Scale 1:300

08/26/11

15:34:06

Hole Name: RD11-17															
REDFORD IRON ORE PROJECT											Hole Length: 240.55				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		OB													
11.89		BC													
11.89		BC													
29.90		BC	Basalt 11.89 - 49.05 moderately to highly altered green to dark grey/black); moderate iron staining, progressively more altered and aphanitic with depth, 40.90 - 42.00 1 cm quartz veins, abundant veinlets	1	0	0	0	0	0	0					
43.54		BC													

Scale 1:300

03/19/12

17:06:25

Hole Name: RD11-17																
REDFORD IRON ORE PROJECT										Hole Length: 240.55						
Segment Start Depth: 43.54										Segment End Depth: 87.07						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
45	BC	Bs	Basalt 11.89 - 49.05 moderately to highly altered green to dark grey/black); moderate iron staining, progressively more altered and aphanitic with depth, 40.90 - 42.00 1 cm quartz veins, abundant veinlets		1	0	0	0	0	0						
50			Andesite 49.05 - 54.7 Porphyritic altered andesite, fine dark grey - green groundmass, diopside alteration, large clusters of plag and hb (2-5mm, 18%) 54.60 - 65.24 Porphyritic medium crystalline tan/grey andesite, less altered than above zones, HCl Rx moderate from common <1mm - 2mm calcite phenos, common euhedral plag phenos, minor amphibole phenos, disseminated pyrite throughout, minor calcite veinlets and veins													
55	BC	And	Bleached and altered basalt, dark grey to green with common calcite and epidote veinlets, very siliceous, occasional diopside alteration throughout, abundant rubbly broken core 2cm calcite vein with 0.5cm skarn breccia at 70.07m		1	0	0	0	0	0						
65	BC		74.74 - 80.83 Diopside skarn, green to white bleached, 5% epidote, 1% fluorite, 1% rhodochrosite, calcite veinlets as above, very siliceous throughout moreso from 80.12 - 80.83, 4 cm quartz vein at 76.00m, 79.87 - 80.12 gouged fault zone that is iron stained down to lower contact, minor relict andesite texture, rare pyrite throughout, base contact is gouged and rubbly.													
70	BC	Bs	Basalt, dark grey aphanitic with occasional calcite veinlets throughout, 1cm quartz vein with rare associated pyrite and epidote from 81.15 - 81.50, minor diopside alteration from 83.75 - 83.90.													
75	BC		Skarn 83.90 - 96.58 Siliceous bleached green diopside skarn, percentage of diopside decreases with depth, increasing percentage of pink bleached rhodochrosite (?) and/or possibly garnet, minor marcasite, calcite, rare fluorite and 5-15% epidote associated with abundant veins and veinlets, complex crosscutting network of veinlets, rare pyrite disseminated throughout		1	0	0	0	0	0						
80	BC FLTG BC	Sk	96.58 - 97.73 Grey siliceous aphanitic zone with common light green to grey talc throughout													
		And	97.73 - 100.70 Mottled garnet skarn, 80% garnet, 10% diopside, 1% epidote, minor marcasite and pyrrhotite, rare calcite veinlets		1	0	0	0	0	0						
85		Sk	100.70 - 101.23 Impure magnetite (15%) garnet skarn, bottom contact is gradational, moderate marcasite throughout, minor pyrite and pyrrhotite and rare epidote and calcite veinlets.		1	0	0	0	0	0						

Scale 1:300

03/19/12

17:06:25

Hole Name: RD11-17														
REDFORD IRON ORE PROJECT										Hole Length: 240.55				
Segment Start Depth: 87.07										Segment End Depth: 130.61				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
90		Sk	Skarn		1	0	0	0	0	0				
95			83.90 - 96.58 Siliceous bleached green diopside skarn, percentage of diopside decreases with depth, increasing percentage of pink bleached rhodochrosite (?) and/or possibly garnet, minor marcasite, calcite, rare fluorite and 5-15% epidote associated with abundant veins and veinlets, complex crosscutting network of veinlets, rare pyrite disseminated throughout	90	0	1	0	0	0	0				
100			96.58 - 97.73 Grey siliceous aphanitic zone with common light green to grey talc throughout		0	1	0	0	0	0				
100			97.73 - 100.70 Mottled garnet skarn, 80% garnet, 10% diopside, 1% epidote, minor marcasite and pyrrhotite, rare calcite veinlets								14351	100	101	0.9
100		Mb									14352	101	102	0.5
105	BC	And	100.70 - 101.23 Impure magnetite (15%) garnet skarn, bottom contact is gradational, moderate marcasite throughout, minor pyrite and pyrrhotite and rare epidote and calcite veinlets.		1	0	0	0	0	0				
110		Sk	Light grey fine crystalline marble, rare epidote in veinlets.		1	0	0	0	0	0				
115			Grey medium crystalline andesite, becomes increasingly porphyritic with 2-3mm plag phenos towards base contact, minor marcasite and 1mm amphibole phenos throughout, rare pyrite		1	0	0	0	0	0				
115			108.50 - 109.02m Light grey fine crystalline marble											
120	FLTG	Mb	Garnet skarn mottled with diopside and chlorite, 2-3% epidote, minor calcite veinlets and rare pyrite throughout		1	0	0	0	0	0				
125			111.17 - 112.00 Green to dark grey diopside - pyroxene skarn, relict altered aphanitic to porphyritic andesite with minor 1mm plag phenos.											
130			Marble, light to medium grey fine to medium crystalline with abundant network of fractures from 116.44 to base contact, rare marcasite along calcite veinlets, rare disseminated pyrite											
			116.44 - 117.55 epidote and diopside altered zone											
			120.30 - 120.42 Fault zone with 5cm gouge, green chlorite											

Scale 1:300

03/19/12

17:06:25

Hole Name: RD11-17															
REDFORD IRON ORE PROJECT											Hole Length: 240.55				
Segment Start Depth: 130.61											Segment End Depth: 174.14				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
135		Mb	Marble, light to medium grey fine to medium crystalline with abundant network of fractures from 116.44 to base contact, rare marcasite along calcite veinlets, rare disseminated pyrite 116.44 - 117.55 epidote and diopside altered zone 120.30 - 120.42 Fault zone with 5cm gouge, green chlorite		1	0	0	0	0	0					
	FLTG				1	1	0	0	0	0					
	BC														
140		And	Grey andesite, medium crystalline, rare pyrite throughout, occasional 1-2mm plag phenos. 136.11 - 136.46 Diopside and garnet altered, fault zone, brecciated with some gouge, rare chlorite and pyrrhotite. 136.46 - 139.56 Broken core, abundant iron staining. 142.07 - 145.73 Highly altered porphyritic andesite, abundant 1mm plag phenos, diopside-pyroxene alteration, 2-3% garnet, 3cm fault gouge zone at base, possible hematite staining (red-brown), minor marcasite, rare disseminated pyrite, increasingly altered towards sharp fault contact.		1	0	0	0	0	0					
145	FLTG														
	BC				0	0	0	0	0	2					
150		Mb	Marble as above, coarse crystalline, abundant chlorite in chaotic zone within top 20cm of unit, hematite staining along top contact, minor chlorite veinlets throughout 147.93 - 147.98 hematite 150.80 - 10.90 light pink mineral, rhodochrosite?												
155		Mb	Marble as above, coarse crystalline, abundant chlorite in chaotic zone within top 20cm of unit, hematite staining along top contact, minor chlorite veinlets throughout 147.93 - 147.98 hematite 150.80 - 10.90 light pink mineral, rhodochrosite?												
160		Mb	Coursely crystalline marble, lt to dk grey												
165	FLTG		160-168.95: Marble has brecciated zones (dk grey) throughout unit with 5% magnetite (?) and associated py and pyh(?) in the groundmass b/w breccia 163-169: Epidote veining and chlorite alteration (esp along fracture planes) (15%); py disseminated and cubic py along fracture planes; pyrrhotite disseminated and in blebs 166.23-166.60: mottled zone of chl and rhodenite (edge of skarn?) 197-200.91: zone of minor calcite veining 198.85-199.47: moderate region of veins altered by diopside and rhodenite (up to 3cm)	5	1	1	0	0	0	0					
	FLTG														
170		Mb	Coursely crystalline marble, lt to dk grey		0.5	0	0	0	0	0					
	FLT														

Scale 1:300

03/19/12

17:06:25

Hole Name: RD11-17															
REDFORD IRON ORE PROJECT										Hole Length: 240.55					
Segment Start Depth: 174.14										Segment End Depth: 217.68					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
180	FLT	Mb	Coursely crystalline marble, lt to dk grey												
185			160-168.95: Marble has brecciated zones (dk grey) throughout unit with 5% magnetite (?) and associated py and pyh(?) in the groundmass b/w breccia												
			163-169: Epidote veining and chlorite alteration (esp along fracture planes) (15%); py disseminated and cubic py along fracture planes; pyrrhotite disseminated and in blebs												
			166.23-166.60: mottled zone of chl and rhodenite (edge of skarn?)												
			197-200.91: zone of minor calcite veining												
			198.85-199.47: moderate region of veins altered by diopside and rhodenite (up to 3cm)		0.5	0	0	0	0	0	0				
195				Magnetite, highly broken (much of it is rubble with a section at the end that has been pulverized due to drilling mistake)											
				Sharp contact with the Marble above it; blk color.											
				Minor epidote (1%) veining along fractures with white chalky gouge											
200	CTC		Mt	203.72-204.48: small section of garnet rich skarn (~5cm) but area dominated by diopside skarn; contact between this and the mag is slightly gradational.								14353	200	201	7.1
		207.01-215.1: Di rich skarn intermingled with mag; grades into skarn unit by 215m		65								14354	201	202	47.8
												14355	202	203	66.8
												14356	203	204	56.2
												14357	204	205	26.8
												14359	205	206	73.8
												14360	206	207	33.9
												14361	207	208	42.6
												14362	208	209	18.7
												14363	209	210	0.9
210	BC	Sk	Contact between magnetite and skarn gradual and mottled												
			207.01-215.9: Di rich skarn intermingled with mag	60	5	10	0	0	0	0	0	14364	210	211	19.6
			215.90-229.85: Gnt-di rich skarn with mag	50								14365	211	212	16.7
			Areas of skarn with mag rich zones have up to 15% pyrrhotite and 5% py mineralization	70								14366	212	213	40.6
			229.85-240.55: diopside skarn with mottled garnet flooding	50	5	12	1	0	0	0	0	14367	213	214	5.9
			EOH	60								14368	214	215	12
				20								14369	215	216	3.5
												14370	216	217	0.9
												14371	217	218	1.4

Scale 1:300

03/19/12

17:06:25





Hole Name: RD11-16

REDFORD IRON ORE PROJECT

Hole Length: 121.04

Segment Start Depth: 0.00

Segment End Depth: 43.54

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
5														
10		OB												
15														
20														
25														
30		And	Altered porphyritic andesite with silicious dark groundmass and plag phenos 1-2mm scale. Calcite veinlets and blebs throughout as well as epidote veining (~50tca). Py throughout as cubic and blebs 3%. Core is very blocky  31.15m, 30cm of offsets. 47.1m, 30cm band of 5% hem, py 2% and marcasite 10% 47.3-47.67m, porphyritic andesite grades into very fine grained andesite with light grey groundmass with mm scale plag phenos and rare hb. Py is cubic and disseminated throughout 2%. 47.67m, grades back into dark altered porphyritic andesite, py 3% and marcasite 5% along fracture planes. 54.68, 10cm band of alteration with py veins and veinlets at 45 tca. 57.75-59.25, fault broken/pulverized core with gouge. 73.54m, 20cm band of highly fractured core, py increases 10% along fractures. 82.4-86.1m, andesite becomes more muddy brown color, possible garnet alteration?	3	0	0	0	0	0					
35														
40														

Scale 1:300

08/26/11

15:33:01

Hole Name: RD11-16															
REDFORD IRON ORE PROJECT										Hole Length: 121.04					
Segment Start Depth: 43.54										Segment End Depth: 87.07					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45		And	Altered porphyritic andesite with silicious dark groundmass and plag phenos 1-2mm scale. Calcite veinlets and blebs throughout as well as epidote veining (~50tca). Py throughout as cubic and blebs 3%. Core is very blocky	3	0	0	0	0	0	0					
50			31.15m, 30cm of offsets. 47.1m, 30cm band of 5% hem, py 2% and marcasite 10% 47.3-47.67m, porphyritic andesite grades into very fine grained andesite with light grey groundmass with mm scale plag phenos and rare hb. Py is cubic and disseminated throughout 2%. 47.67m, grades back into dark altered porphyritic andesite, py 3% and marcasite 5% along fracture planes. 54.68, 10cm band of alteration with py veins and veinlets at 45 tca. 57.75-59.25, fault broken/pulverized core with gouge. 73.54m, 20cm band of highly fractured core, py increases 10% along fractures. 82.4-86.1m, andesite becomes more muddy brown color, possible garnet alteration?	2	0	0	0	0	0	0					
55															
60	FLTG														
65															
70				Highly silicious bleached skarn dyke, diposide dominated(60%) with rhodocrosite (20%) and minor epidote stringers. 88.33m, 10cm band of alteration with pyr stringers (10%) and blebs of py (5%). 89.2-90.46m, altered porphyritic andesite dyke with dark grey/green groundmass and plag phenos 2-3mm length, calcite veining with minor associated epidote at 70 tca. Py disseminated throughout 1%. 96.3-97.34m, andesite dyke, light beige fine grained groundmass with mm scale plag phenos and dendritic hb?.	10	0	0	0	0	0	0				
75															
80				97.34 to 102.3, skarn becomes more pyroxene dominated (50%) with 30% diposide and calcite veins and veinlets. With garnet dominated skarn from 99.20-100.1m. 100.1-101.0m, andesite dyke same as above. 102.1-103.0m, band of massive Mt (50%)mixed with massive pyr (40%) and py (10%) as fracture infilling with calcite. Towards 103m mark core becomes mottled dark green epidote. Core is very rubbly/blocky with core loss throughout, possible driller error?											
85			Sk												

Scale 1:300

08/26/11

15:33:01

Hole Name: RD11-16														
REDFORD IRON ORE PROJECT							Hole Length: 121.04							
Segment Start Depth: 87.07							Segment End Depth: 130.61							
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
90		Sk	Highly silicious bleached skarn dyke, diposide dominated(60%) with rhodocrosite (20%) and minor epidote stringers. 88.33m, 10cm band of alteration with pyr stringers (10%) and blebs of py (5%).  89.2-90.46m, altered porphyritic andesite dyke with dark grey/green groundmass and plag phenos 2-3mm length, calcite veining with minor associated epidote at 70 tca. Py disseminated throughout 1%. 96.3-97.34m, andesite dyke, light beige fine grained groundmass with mm scale plag phenos and dendritic hb?.	5 1	10 0	0 0	0 0	0 0	0 0	0 0				
95														
100														
105		And	97.34 to 102.3, skarn becomes more pyroxene dominated (50%) with 30% diposide and calcite veins and veinlets. With garnet dominated skarn from 99.20-100.1m. 100.1-101.0m, andesite dyke same as above. 102.1-103.0m, band of massive Mt (50%)mixed with massive pyr (40%) and py (10%) as fracture infilling with calcite. Towards 103m mark core becomes mottled dark green epidote.  Core is very rubbly/blocky with core loss throughout, possible driller error?	50 1	10 0	40 0	0 0	0 0	0 0	0 0	14401	102	103.5	15.4
110														
115														
120														
125			Porphyritic andesite with light grey fine grained groundmass with plag phenos 2-4 mm and hb lathes 1-2mm in length. Calcite veining at 50tca throughout. Some garnet alteration within core going downhole. Trace py (1%) disseminated throughout.  121.04m EOH											
130														

Scale 1:300

08/26/11

15:33:01

Hole Name: RD11-15

REDFORD IRON ORE PROJECT

Hole Length: 223.48

Segment Start Depth: 0.00

Segment End Depth: 43.54

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
5		OB												
10														
15														
20	FLT													
25	FLT	And	Andesite, grey to brown altered groundmass; mainly 1mm 15-25% plag, <1mm 10% hb; trace disseminated py; minor calcite veins with vein-sourced bleaching (5mm halo); becomes more plag-pheric from 20-23.40 with 30% 1-2mm plag											
30	FLT		34.50-45.27, up to 5,mm crystal clusters of plag and hb, 25%; groundmass becomes green-grey with moderate calcite veins	1	0	0	0	0	0					
35	FLT		46.7-47.3, coarser, plag-pheric, as in above description											
40	FLT		47.3-49.75, brown groundmass 50.5-42.6, diopside skarn intrusion, silicified, mottled with 5% cubic py along fractures; bleached											

Scale 1:300

08/26/11

15:32:41

Hole Name: RD11-15

REDFORD IRON ORE PROJECT

Hole Length: 223.48

Segment Start Depth: 43.54

Segment End Depth: 87.07

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45		And	Andesite, grey to brown altered groundmass; mainly 1mm 15-25% plag, <1mm 10% hb; trace disseminated py; minor calcite veins with vein-sourced bleaching (5mm halo); becomes more plag-pheric from 20-23.40 with 30% 1-2mm plag 34.50-45.27, up to 5,mm crystal clusters of plag and hb, 25%; groundmass becomes green-grey with moderate calcite veins 46.7-47.3, coarser, plag-pheric, as in above description 47.3-49.75, brown groundmass 50.5-42.6, diopside skarn intrusion, silicified, mottled with 5% cubic py along fractures; bleached											
50	FLTG- FLT-													
55	BC	Bs												
60		And	Basalt, massive, black, minor calcite veinlets	1	0	0	0	0	0	0				
65	BC		Andesite, aphanitic tan/light grey groundmass with 1-2mm plag porphyry, 10%; silicified; trace diss. py											
70		Bs	Basalt, as above											
75	FLTG													
80	FLTG	Sk	Diopside skarn, highly silicified with mottled rhodochrosite and associated white alteration (silicified marble?); trace fluorite in isolated blemishes. Minor epidote and pyr along vein and veinlets increasing from 92.90; 95.20 - 96.17 increased bleaching with increase in rhodochrosite and decrease in diopside alteration; 96.17 - 96.70 and 96.95 - 97.18 fine grained altered dark green andesite dykes with minor plag phenos.											
85														

Scale 1:300

08/26/11

15:32:41

Hole Name: RD11-15														
REDFORD IRON ORE PROJECT							Hole Length: 223.48							
Segment Start Depth: 87.07							Segment End Depth: 130.61							
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
90	BC	Sk	Diopside skarn, highly silicified with mottled rhodochrosite and associated white alteration (silicified marble?); trace fluorite in isolated blemishes. Minor epidote and pyr along vein and veinlets increasing from 92.90; 95.20 - 96.17 increased bleaching with increase in rhodochrosite and decrease in diopside alteration; 96.17 - 96.70 and 96.95 - 97.18 fine grained altered dark green andesite dykes with minor plag phenos.											
95		Sk												
100		Sk	Andesite; grey-tan fine grained groundmass with abundant 1-3mm plag phenos throughout; minor pyrite; minor marcasite along veinlets; groundmass increasingly altered to dark brown towards contacts.	0	1	0	0	0	0	0				
105	BC	Sk	Diopside skarn; as above with minor rhodochrosite and epidote; minor pyr along veins and veinlets.											
110	BC	And	Andesite as above; dark brown alteration of groundmass from 113.70 - 115.24; minor disseminated pyrite and marcasite along veinlets; base contact of unit inferred within broken core.	1	0	0	0	0	0	0				
115	FLTG	Sk		0	1	0	0	0	0	0				
115	FLTG	And	Bleached garnet (or rhodochrosite?) skarn with moderate diopside alteration and minor epidote along veins; minor pyrrhotite throughout; highly fractured; 2-3% marcasite; 121.34 - 121.54 fine grained dark green andesite dyke, magnetite gouge along lower contact; no longer bleached from 121.54 - 122.21.	2	0	0	0	0	0	0				
120	FLTG	Sk	Impure magnetite mottled with bright medium green (diopside?) alteration mineral, 75% magnetite, minor calcite veinlets throughout, minor marcasite and pyrite, gouge at base contact.	0	1	0	0	0	0	0	14303	120	121	0.4
125	FLTG	Mt		5							14304	121	122	2.1
125	FLTG	And	Altered porphyritic andesite with a fine grained green - black (chlorite alteration?) groundmass and abundant 1-3mm plag phenos to 130.30, minor epidote along veinlets; 130.39 - 136.17 andesite becomes finer grained, much less altered with a light tan - grey groundmass with 1mm - >1mm plag phenos, high amount of iron staining; 2-3% marcasite throughout entire interval, 1% pyrite.	75	1	0	0	0	0	0	14306	122	123	55.8
130		And									14307	123	124	68.2
											14308	124	125	28.3

Scale 1:300

08/26/11

15:32:41





Hole Name: RD11-15

REDFORD IRON ORE PROJECT

Hole Length: 223.48

Segment Start Depth: 174.14

Segment End Depth: 217.68

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
180	BC	Sk	Garnet skarn with mottled diopside throughout											
		And	159.74 - 160.66 white to light grey-green bleached diopside (?)skarn fracture zone, mottled to brecciated texture with occasional black pyroxene, minor epidote along fractures, rare pyrite and marcasite, dark grey magnetic gouged fault zone from 160.51 - 160.66 with some white talc (?).											
		Sk	160.66 - 160.90 Impure magnetite zone with occasional pyrrhotite, rare calcite veinlets and associated marcasite, rare pyrite throughout, lower contact grades back into bleached skarn as above.											
185	FLTG	And	160.90 - 161.73 Bleached diopside skarn as above, 15cm of disseminated magnetite from 161.16 - 161.31 with rare marcasite and pyrrhotite.											
190		Sk	161.73 - 163.90 Garnet skarn mottled with diopside, minor calcite and epidote veinlets, very rare pyrite											
		Sk	163.90 - 166.70 Diopside skarn mottled to flow banded with 35% garnet and 10% epidote, 5% fluorite, minor calcite veinlets, rare pyrite	0	0	0		1	0	0				
		Sk	166.70 - Garnet skarn as above, increased amount of epidote veining ~15%, % diopside decreases to base of unit.											
195		Sk	Andesite, highly broken rubbly core likely from drilling, tan/grey groundmass with common plag and amphibole phenos, contacts are lost in the rubble therefore estimated.											
200	BC	Sk	Garnet skarn, as above											
		And	Andesite, tan/grey groundmass with plag and amphibole, 5cm of gouge at top contact, lower contact within a broken rubbly interval, fault zone.											
205	FLTG	And	Diopside skarn with minor garnet and rare epidote, very rare relict andesite plag phenos, rare calcite veinlets, very rare arsenopyrite along fractures and disseminated throughout, increasingly garnet rich and mottled with diopside and 5% epidote from 198.10 towards base contact, contact is rubbly.	1	0	0		0	0	0				
210		And	Andesite, greenish grey groundmass with plag and amphibole phenos, minor pyrite disseminated throughout, 10 - 12cm blebs of garnet skarn from 201.00 - 201.48, rare calcite veinlets throughout, rubbly gouged faulted zone from 206.81 - 210.08 and from 216.10 - 217.92											
215	FLTG	And	223.48m EOH											

Scale 1:300

08/26/11

15:32:42

Hole Name: RD11-15														
REDFORD IRON ORE PROJECT										Hole Length: 223.48				
Segment Start Depth: 217.68										Segment End Depth: 261.22				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
-220	FLTG	And	Andesite, greenish grey groundmass with plag and amphibole phenos, minor pyrite disseminated throughout, 10 - 12cm blebs of garnet skarn from 201.00 - 201.48, rare calcite veinlets throughout, rubbly gouged faulted zone from 206.81 - 210.08 and from 216.10 - 217.92		1	0	0	0	0	0				
-225			223.48m EOH											
-230														
-235														
-240														
-245														
-250														
-255														
-260														
Scale 1:300				08/26/11					15:32:42					

Hole Name: RD11-14															
REDFORD IRON ORE PROJECT											Hole Length: 218.60				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		OB													
10															
15		Sk	Diopside skarn, heavily silicified and hard; pale colouration of diopside and garnet due to silicification; mottled white alteration with diopside and garnet likely silicified marble or relict groundmass of original unit(non-reactive to HCl); non-diopside px-rich black-coloured zone from 12.2-17.8 (hedenbergite?); becomes garnet rich @ 51.55 to end of unit; High mottled epidote (up to 30%) from 53.36-53.9.												
20															
25															
30															
35															
40															
Scale 1:300				08/26/11						15:32:16					

Hole Name: RD11-14															
REDFORD IRON ORE PROJECT											Hole Length: 218.60				
Segment Start Depth: 43.54											Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45		Sk	Diopside skarn, heavily silicified and hard; pale colouration of diopside and garnet due to silicification; mottled white alteration with diopside and garnet likely silicified marble or relict groundmass of original unit(non-reactive to HCl); non-diopside px-rich black-coloured zone from 12.2-17.8 (hedenbergite?); becomes garnet rich @ 51.55 to end of unit; High mottled epidote (up to 30%) from 53.36-53.9.												
55		Mb	Marble, light grey, massive, coarse crystalline; upper contact @ 55 deg TCA and basal contact @ 70 deg TCA												
60		And	Altered andesite porphyry, grey-green groundmass with 20-25% 1-2mm plag, 10-15% <1mm hb, and 1% trace disseminated Py; approx 15cm aphanitic chill margins along upper and basal contacts; 10cm marble inclusion @59.58m	0.5	0	0	0	0	0	0					
65	FLTG	Mb	Marble, as above; some darker grey zones. 76.18-77.1, irregular silicified skarn inclusions/intrusions up to 20cm, primarily garnet 78.35, 20cm altered andesite intrusion; similar to above unit with darker groundmass and 2cm diopside-rich contact rims. 80.16, 8cm altered andesite intrusion, as above with 5mm contact rims 80.7, 8cm altered andesite intrusion, as above												
80		Mb	Altered andesite porphyry, as above with up to 25% plag and darker grey-green groundmass (pyroxene alteration?); moderate calcite veinlets with veinlet-sourced bleaching (up to 5mm halo) Top 40cm skarn-altered with garnet and diopside and andesite texture of groundmass; basal contact also shows 32cm of similar lithology.												
85		And		0.5	0	0	0	0	0	0					

Scale 1:300

08/26/11

15:32:16

Hole Name: RD11-14

REDFORD IRON ORE PROJECT

Hole Length: 218.60

Segment Start Depth: 87.07

Segment End Depth: 130.61

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
90		And	Altered andesite porphyry, as above with up to 25% plag and darker grey-green groundmass (pyroxene alteration?); moderate calcite veinlets with veinlet-sourced bleaching (up to 5mm halo) Top 40cm skarn-altered with garnet and diopside and andesite texture of groundmass; basal contact also shows 32cm of similar lithology.	0.5	0	0	0	0	0	0					
		Mb													
95	FLT	And			0.5	0	0	0	0	0	0				
			Marble, massive, as above.												
100		Mb	Altered andesite porphyry, back to primarily green groundmass, plag now 1-3mm with 5% hb <1mm; minor veinlet sourced bleaching, 2-5mm halo; minor calcite veinlets/veins; trace disseminated Py.												
			Marble as above.	1	0	0	0	0	0	0					
105			102.74- 105.79m, trace py disseminated throughout core. 103.36m, 20cm band of py (20%) in blebs and along veins mixed with pyr 5%. 106.23-108.4m, fault pulverized core with gouge.	1	0	0	0	0	0	0					
	FLTG														
110		And		10	0	0	0	0	0	0					
			Altered andesite dyke, fine grained light grey groundmass with plag phenos 2-3mm and hb phenos mm scale. Cubic py (10%) disseminated throughout and as blebs along fracture planes. Unit ends with 13cm band of bleached garnet skarn.												
115		Mb	Marble coarse crystalline, same as above.												
			Diopside dominated skarn intursion. Py disseminate along fracture planes 5% increasing to 10% in some areas.												
120			124.8 to end of unit, skarn becomes garnet dominated and vuggy with increase py to 15%.												
		Sk		5	0	0	0	0	0	0					
125			Marble, same as above. Trace py throughout up to 1%.	15	0	0	0	0	0	0					
		Mb	126.54m, 10cm of gouge. 127.5-128.15m, altered andesite dyke, very fine grained green groundmass with hb phenos mm scale and calcite veinlets.	1	0	0	0	0	0	0					
130															

Scale 1:300

08/26/11

15:32:16

Hole Name: RD11-14															
REDFORD IRON ORE PROJECT											Hole Length: 218.60				
Segment Start Depth: 130.61											Segment End Depth: 174.14				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
135		Mb	Marble, same as above. Trace py throughout up to 1%. 126.54m, 10cm of gouge. 127.5-128.15m, altered andesite dyke, very fine grained green groundmass with hb phenos mm scale and calcite veinlets.		1	0	0	0	0	0					
140		And	Altered andesite dyke, light green fine grained groundmass with plag phenos 1-2mm and mm scale hb phenos. At 139.33m, pink rhodochrosite stringers.												
145		Mb	Marble, same as above. Trace py throughout up to 1%.		1	0	0	0	0	0					
150			Andesite dyke, same as above, trace py up to 1% disseminated throughout core.												
155		And	Marble, same as above. Iron staining throughout core.		1	0	0	0	0	0					
160			167.62m, 23cm dyke of diopside dominated skarn. 171.9-175.9m, mix of chlorite, talc and serpentine gouge along fracture planes. 172.82-175.97m, py trace amounts up to 1% disseminated throughout. 175.87m, Py increases as blebs to 15% and inclusions of garnet.												
165		Mb	183.13-185.7m, marble becomes mixed with bleached garnet skarn mottled with pyroxene. 183.13-183.5m, bands of Mt 30% and py 20%, pyr 2% and poss marcassite 1%. 196.55-196.85, garnet skarn intrusion 197.62, garnet skarn inclusion with semi-massive Pyr (30%) along lower contact												
170					1	0	0	0	0	0					

Scale 1:300

08/26/11

15:32:16

Hole Name: RD11-14

REDFORD IRON ORE PROJECT

Hole Length: 218.60

Segment Start Depth: 174.14

Segment End Depth: 217.68

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
180		Mb	Marble, same as above. Iron staining throughout core. 167.62m, 23cm dyke of diopside dominated skarn. 171.9-175.9m, mix of chlorite, talc and serpentine gouge along fracture planes. 172.82-175.97m, py trace amounts up to 1% disseminated throughout. 175.87m, Py increases as blebs to 15% and inclusions of garnet. 183.13-185.7m, marble becomes mixed with bleached garnet skarn mottled with pyroxene. 183.13-183.5m, bands of Mt 30% and py 20%, pyr 2% and poss marcasite 1%. 196.55-196.85, garnet skarn intrusion 197.62, garnet skarn inclusion with semi-massive Pyr (30%) along lower contact		1	0	0	0	0	0				
185				30	20	2	0	0	0	0	0	14301	183	184
											14302	184	185	0.7
200	FLTG	Sk	Skarn unit with a mixture of various mineral types; mottled with zones near upper contact that appear brecciated with rounded clasts and dark pyroxene (hedenbergite?) matrix; more diopside toward faulted basal contact with associated iron straining on fracture planes.		0	30	0	0	0	0				
210		And	Altered andesite dyke with muddy grey-brown groundmass and 20% plag, 1-3mm with 10% <1mm hb and trace 1-2% disseminated py; also marcasite along fracture planes.  218.60 EOH		2	0	0	0	0	0				

Scale 1:300

08/26/11

15:32:16

Hole Name: RD11-14														
REDFORD IRON ORE PROJECT							Hole Length: 218.60							
Segment Start Depth: 217.68							Segment End Depth: 261.22							
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
		And			2	0	0	0	0	0				
-220			Altered andesite dyke with muddy grey-brown groundmass and 20% plag, 1-3mm with 10% <1mm hb and trace 1-2% disseminated py; also marcasite along fracture planes.  218.60 EOH											
-225														
-230														
-235														
-240														
-245														
-250														
-255														
-260														
Scale 1:300				08/26/11				15:32:16						



Hole Name: RD11-13

REDFORD IRON ORE PROJECT

Hole Length: 316.16

Segment Start Depth: 0.00

Segment End Depth: 43.54

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
5		OB												
10		OB												
15		OB												
20		OB												
25		Mb												
30		Mb												
35		Mb	Marble, massive white to dark-grey; occasional iron staining along fracture planes 49.84-49.94, Andesite intrusion with angular marble clasts up to 4cm within											
40	FLT	Mb												
	FLT	Mb												
	FLT	Mb												

Scale 1:300

08/26/11

15:31:30

Hole Name: RD11-13

REDFORD IRON ORE PROJECT

Hole Length: 316.16

Segment Start Depth: 43.54

Segment End Depth: 87.07

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45		Mb	Marble, massive white to dark-grey; occasional iron staining along fracture planes 49.84-49.94, Andesite intrusion with angular marble clasts up to 4cm within											
50														
55		And	Andesite, medium grey groundmass with 20% 1-2mm plag porphyry and 10% hb, <1mm; trace disseminated py Upper contact 50 deg TCA, basal contact 55.	0.5	0	0	0	0	0	0				
60		Mb	Marble, massive, as above 77.55-78.35, garnet skarn intrusion mostly massive, some mottled within marble; irregular contacts											
65	45 FLTG-0			3	0	0	0	0	0	0	0			
70														
75		And	Andesite, massive, lithology as above; upper 20cm shows garnet alteration of groundmass; upper contact 20 deg TCA; groundmass generally has more brown appearance than upper unit.											
80				1	0	0	0	0	0	0				
85														

Scale 1:300

08/26/11

15:31:30

Hole Name: RD11-13

REDFORD IRON ORE PROJECT

Hole Length: 316.16

Segment Start Depth: 87.07

Segment End Depth: 130.61

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
90	FLT	And	Andesite, massive, lithology as above; upper 20cm shows garnet alteration of groundmass; upper contact 20 deg TCA; groundmass genrally has more brown appearance than upper unit.		1	0	0	0	0	0				
95		Mb	Marble, massive, as above; basal contact with andesite irregular, roughly 30 deg TCA											
100	FLT	And	Andesite, as above; brown alteration of groundmass for roughly the top and bottom 35cm of unit.		1	0	0	0	0	0				
110		Mb	Marble, massive, as above. 126.36-126.85, Andesite intrusion, resembles other andesite units; brown alteration rim along contacts, 1cm; upper contact 40 deg TCA											
115		Mb	Andesite, as above; plag phenocrysts slightly larger (1-3mm). Irregular upper contact roughly 15 deg TCA, 2cm brown alteration rim; trace disseminated py; iron staining and sometimes marcasite along fractures; groundmass weakly reactive to HCl. 145m, plagioclase porphyry becomes larger (1-4mm); zone also more silicified. 155.8, minor bleaching locally. Basal contact shows brown alteration of groundmass (dark purple-brown) from 171.5-173.22											
120	FLT	And			1	0	0	0	0	0				
125	FLT													
130	BC	And			1	0	0	0	0	0				

Scale 1:300

08/26/11

15:31:30

Hole Name: RD11-13

REDFORD IRON ORE PROJECT

Hole Length: 316.16

Segment Start Depth: 130.61

Segment End Depth: 174.14

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
135		And	<p>Andesite, as above; plag phenocrysts slightly larger (1-3mm). Irregular upper contact roughly 15 deg TCA, 2cm brown alteration rim; trace disseminated py; iron staining and sometimes marcasite along fractures; groundmass weakly reactive to HCl.</p> <p>145m, plagioclase porphyry becomes larger (1-4mm); zone also more silicified.</p> <p>155.8, minor bleaching locally.</p> <p>Basal contact shows brown alteration of groundmass (dark purple-brown) from 171.5-173.22</p>												
140															
145	BC														
150															
155															
160															
165	BC														
170	FLT-d														
				Mb	Marble, massive, as above.										

Scale 1:300

08/26/11

15:31:30

Hole Name: RD11-13

REDFORD IRON ORE PROJECT

Hole Length: 316.16

Segment Start Depth: 174.14

Segment End Depth: 217.68

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
180	FLTG	Mb	Marble, massive, as above.											
185	FLTG	And	Andesite, as above; silicified with plag phenos 1-3mm. Occasional fuchsite, <3% along fractures; notable at 185.8m, 187.5m, 188.64m, 190m. Unit ends in skarn alteration from 197.8-198.23m, beginning with px alteration of groundmass and then grading into mottled diopside/garnet; basal contact 65 deg TCA	1	0	0	0	0	0	0				
195	FLTG													
200		Mb	Marble, massive, as above.											
205		Sk	Diopside scarn intrusion with some relict andesite texture (specifically plag porphyry); upper contact at 70 deg TCA; basal contact irregular, but roughly 40 deg TCA. Upper contact also contains 3 cm halo of heavily disseminated pyrr and associated cpy	1	10	3	0	0	0	0				
210		Mb			0.5	0	0	0	0	0	0			
215		Mb	Massive marble, course crysatlline, white to med grey. 205.88-207.05m: diopside skarn-altered groundmass in andesite intrusion with moderate zones of garnet alteration (206.05-206.7m contact along core axis); plag phenos 2mm.											

Scale 1:300

08/26/11

15:31:30

Hole Name: RD11-13

REDFORD IRON ORE PROJECT

Hole Length: 316.16

Segment Start Depth: 217.68

Segment End Depth: 261.22

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
220		Mb	Massive marble, course crysatline, white to med grey. 205.88-207.05m: diopside skarn-altered groundmass in andesite intrusion with moderate zones of garnet alteration (206.05-206.7m contact along core axis); plag phenos 2mm.											
225		Sk		0.5	0	0	0	0	0	0				
230		Mb	Diopside skarn with zones of relic andsitic texture in groundmass; px(hedenbergite?) skarn darker green to black compared to diopside rich zones; minor zones of garnet alteration; minor zones of epidote (10%) and calcite veining											
235		And	Course massive marble as above.	1	0	0	0	0	0					
240		Mb	Andesite unit with zones of epidote alteration (10%) and calcite veining; marcasite mineralization along fracture surfaces; color is a med to dark grey/green											
240		And		0.5	0	0	0	0	0	0				
245		Mb	Course crystalline marble as above with a light grey color											
245		Mb	Andesite as above. Epidote 5%											
245		And	Course crystalline marble as above. Lt to med. Grey											
250		And	Andesite has 2-3mm plag phenos; px altered with zones of diopside alteration; minor calcite and epidote (5%) veining; minor marcasite mineralization along fracture planes	1	0	0	0	0	0					
255		Mb	Coarse crystalline marble as above; med - light grey; minor calcite veining											
260		Mb												

Scale 1:300

08/26/11

15:31:30

Hole Name: RD11-13															
REDFORD IRON ORE PROJECT										Hole Length: 316.16					
Segment Start Depth: 261.22										Segment End Depth: 304.75					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
265		Mb	Coarse crystalline marble as above; med - light grey; minor calcite veining												
270		And	Andesite; medium to dark grey-brown prophyritic with plag phenocrysts; minor calcite veining with trace marcasite and chlorite alteration; 1% pyrite disseminated throughout; 276.10-276.85m coarse crystalline dioritic interval with moderate quartz; dark grey to black pyroxene(hedenbergite?) alteration of andesite groundmass surrounding the diorite; 283.10 - 288.61m med green diopside alteration of andesite groundmass, minor garnet, quartz veining from 284.65 - 285m.												
275															
280															
285		Mb	Coarse crystalline marble as above; 290.86 - 291.09m Diopside skarn alteration with 15% garnet and 2-3% epidote, trace pyrite; 300.8-301.2, angular and irregular-shaped garnet skarn inclusions up to 7 cm, with py rims up to 5mm (5% locally) 302.2-302.6, diopside skarn intrusion with trace garnet and epidote 302.75-302.92, irregular diopside skarn inclusion, similar to previous band.												
290															
295															
300				5	0	0	0	0	0	0					

Scale 1:300

08/26/11

15:31:30

Hole Name: RD11-13															
REDFORD IRON ORE PROJECT											Hole Length: 316.16				
Segment Start Depth: 304.75											Segment End Depth: 348.29				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
		Mb	<p>Coarse crystalline marble as above; 290.86 - 291.09m Diopside skarn alteration with 15% garnet and 2-3% epidote, trace pyrite; 300.8-301.2, angular and irregular-shaped garnet skarn inclusions up to 7 cm, with py rims up to 5mm (5% locally)</p> <p>302.2-302.6, diopside skarn intrusion with trace garnet and epidote</p> <p>302.75-302.92, irregular diopside skarn inclusion, similar to previous band.</p>												
310		Sk													
315		Mb													
320			<p>Garnet skarn with relict andesite porphyry texture in the form of altered plag phenos (10-15%, 2-3mm); flow banding at roughly 45 deg TCA; minor calcite veinlets with associated bleaching halos of up to 1cm. Minor zones of darker grey-green pyroxene(hedenbergite?); upper and basal contacts at 45 and 30 deg TCA, respectively.</p>												
325			<p>Massive marble, as above.</p> <p>EOH</p>												
330															
335															
340															
345															
Scale 1:300				08/26/11				15:31:30							



Hole Name: RD11-12

REDFORD IRON ORE PROJECT

Hole Length: 170.12

Segment Start Depth: 0.00

Segment End Depth: 43.54

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
5		OB												
10	BC	And	Altered Andesite, dark green-grey groundmass with 15-20% <1mm hb; numerous chaotic calcite veinlets with 1cm bleaching halos emanating from them.											
15		Tn	White groundmass with 10% hb, <1mm, 10% ankerite, and 5-10% diopside phenos; 12.6-12.9, garnet skarn dyke											
20	FLT	And	Altered andesite, as above, basal contact 45 deg TCA Skarn intrusion 16.1-16.5 with fluorite 16.5, 17cm tonalite dyke, identical to overlying unit	1	0	0	0	0	0	0				
20				2	0	0	0	0	0	0				
25	FLT													
30	FLTG FLT	Sk	Diospide skarn, appears silicified with flow banded garnet within; trace cubic py along some fractures; flow banding at approx 45 deg TCA; occasional fluorite blemishes Garnet-rich from 31.5-34.35 39.44-40.2, tonalite dyke, upper contact 25 deg TCA, lithology similar to previous examples Heavy serpentine and chlorite along fracture planes 41-42m Basal contact faulted with k-spar and bleaching											
35														
40	FLTG FLT													

Scale 1:300

08/26/11

15:30:52



Hole Name: RD11-12

REDFORD IRON ORE PROJECT

Hole Length: 170.12

Segment Start Depth: 87.07

Segment End Depth: 130.61

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
90	FLT	Mb	Marble, massive, medium to coarse-grained, with white to dark grey colour and minor chaotic epidote veins throughout; dark and light banding, 60-75 deg TCA 55.6, 2cm soft peach coloured band, k-spar? 56-56.3, Epidotized gouge-filled fault, healed?												
95	FLTG														
100															
105															
110															
115															
120		Mt	Magnetite, massive, black, with minor chaotic epidote veinlets 126.6-127.13, skarn intrusion, chloritized, serpentinized, mainly epidote. 130.27-136.37m, fault, broken and pulverized core with areas of gouge and slick n slides. 142.0-147.56m, Mt (50%) becomes mixed with bleached diopside/garnet skarn, chloritized and serpentinized along fracture planes. 147.56-149.8m, Lesser Mt (30%) mixed with bleached skarn same as above, 148-148.78 Py 10% throughout as blebs and along veins.	95							14251	122	123	0.1	
125	FLT			95								14252	123	124	64.2
	FLT											14253	124	125	76.8
												14254	125	126	77.6
												14255	126	127	18
	FLTG											14256	127	128	63.8
	FLTG											14257	128	129	88.4
130										14258	129	130	68.8		
										14259	130	131	64.4		

Scale 1:300

08/26/11

15:30:52

Hole Name: RD11-12

REDFORD IRON ORE PROJECT

Hole Length: 170.12

Segment Start Depth: 130.61

Segment End Depth: 174.14

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct				
-135	FLTG	Mt	Magnetite, massive, black, with minor chaotic epidote veinlets 126.6-127.13, skarn intrusion, chloritized, serpentinized, mainly epidote. 130.27-136.37m, fault, broken and pulverized core with areas of gouge and slick n slides. 142.0-147.56m, Mt (50%) becomes mixed with bleached diopside/garnet skarn, chloritized and serpentinized along fracture planes. 147.56-149.8m, Lesser Mt (30%) mixed with bleached skarn same as above, 148-148.78 Py 10% throughout as blebs and along veins.	90								14259	130	131	62.2			
												14260	131	132	88.8			
												14261	132	133	90			
												14262	133	134	88.4			
												14263	134	135	84.4			
												14264	135	136	87			
												14265	136	137	85			
												14266	137	138	78			
												14267	138	139	76.2			
												14268	139	140	81.8			
-140											14269	140	141	80.8				
											14270	141	142	62.4				
											14271	142	143	20.8				
											14272	143	144	14.8				
											14273	144	145	26.3				
											14274	145	146	25.2				
											14275	146	147	17.1				
											14276	147	148	13				
											14277	148	149	11.4				
											14278	149	150	19				
-145		Tn	Faulted tonalite Dyke, quartz 45%, plag 30% with hornblende phenos 1mm, iron staining throughout. Core is broken and rubbly with vuggy areas. Chloritized and serpentinized along fracture planes.	30	10	0	0	0	0	0								
															30			
															30			
															30			
															30			
															30			
															30			
															30			
															30			
															30			
-150	FLT	Sk	Garnet (60%) dominated skarn with 20% diopside and minor epidote stringers. Py 10% disseminated throughout and as blebs. 169.4-170.12m, skarn becomes pyroxene dominated with plag phenos 1-2mm with epidote and calcite veining 45 tca. 170.12 EOH.	10	0	0	0	0	0	0								
															10			
															10			
															10			
															10			
															10			
															10			
															10			
															10			
															10			

Scale 1:300

08/26/11

15:30:52

Hole Name: RD11-11															
REDFORD IRON ORE PROJECT											Hole Length: 126.83				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		OB													
15	BC	And	Altered andesite, grey green to dk grey ground mass, heavy altn likely chl or skarn related; 15% 1-2mm hb, trace plag phenos <1mm, trace py	0.5	0	0	0	0	0	0					
20	FLT														
25	FLT	Sk	Diopside skarn with localized zones of gn thurout; primarily flow banded with areas of mottled texture; flow banding dominantly at 50 deg TCA 28.2-30m: localized ep veining up to 2cm 30-33m: minor fluorite blemishes Core becomes more silicified after 31m 36.78-37.67m: wht volcanics intruded, mottled with skarn 38.4-44: gn rich zone with flow banded Kspar 40-42m 44-45.5: tonalite intrusion, 10% hb, <1mm, altd, 10% 1-2mm ankerite 46.7-47: tonalite intrusion; contact at 20deg TCA 48-51: gn rich 54-56: local marcasite along fract planes with associated chl 5%												
30	FLT														
35	FLTG														
40															

Scale 1:300

08/26/11

15:30:31

Hole Name: RD11-11

REDFORD IRON ORE PROJECT

Hole Length: 126.83

Segment Start Depth: 43.54

Segment End Depth: 87.07

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
45	FLTG	Sk	Diopside skarn with localized zones of gn thurout; primarily flow banded with areas of mottled texture; flow banding dominantly at 50 deg TCA 28.2-30m: localized ep veining up to 2cm 30-33m: minor fluourite blemishes Core becomes more silicified after 31m 36.78-37.67m: wht volcanics intruded, mottled with skarn 38.4-44: gn rich zone with flow banded Kspar 40-42m 44-45.5: tonalite intrusion, 10% hb, <1mm, altd, 10% 1-2mm ankerite 46.7-47: tonalite intrusion; contact at 20deg TCA 48-51: gn rich 54-56: local marcasite along fract planes with associated chl 5%													
	FLT															
50																
	FLT															
55																
	FLT	Mb	Marble, light grey-dark grey, massive, chrystilline 60.3-61.6, mottled, bleached garnet skarn mottled within marble 65-67, diopside skarn intrusion, with magnetite band from 65.7-65.94 Basal contact of marble cuts at 20 deg TCA													
60	FLTG															
	FLT															
65	FLTG					45	2	0	0	0	0	0	14201	65	66	12.5
	CTC	And	Altered andesite wth dark green groundmass, as above with more plag phenos (15-20%, 1-2mm) 73.4-74.7, zone of mottled epidote and magnetite 75.7-76.37, as above 76.37-76.82, Mottled diopside and garnet skarn													
70																
	FLT					40							14202	73	74	9.5
75													14203	74	75	23.1
	FLT					30							14204	75	76	1.1
	FLT	Mt	Massive, black, with epidote and diopside stringers; also up to 10% py in some areas, basal contact with tonalite @ 45 deg TCA													
80						50	10	0	0	0	0		14205	76	77	16
	FLT												14206	77	78	66
	FLT												14207	78	79	60.2
		Tn	White groundmass with 10% 1-3mm di phenos; 10-15% 1-2mm ankerite; 5-10% hb, <1mm; trace py		2	0	0	0	0	0		14208	79	80	36.9	
85																
		Mt	Massive magnetite, as above, trace py. 87.9-88.3, mottled garnet/diopside skarn	80							14209	86	87	30.4		
											14210	87	88	66.7		

Scale 1:300

08/26/11

15:30:31

Hole Name: RD11-11

REDFORD IRON ORE PROJECT

Hole Length: 126.83

Segment Start Depth: 87.07

Segment End Depth: 130.61

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
-90		Mt	Massive magnetite, as above, trace py. 87.9-88.3, mottled garnet/diopside skarn	80							14210	87	88	55.4	
		Tn			1	0	0	0	0	0	14211	88	89	0.4	
			Tonalite, as above; gradational upper contact; mottled garnet between phenos within last 15cm of unit.	85								14212	89	90	0.4
					75							14213	90	91	39.8
-95	FLT-G	Mt	Massive, black, as above, higher magnetite %; no sulphides								14214	91	92	55.6	
	FLT-											14215	92	93	48.7
				90							14216	93	94	58.4	
	FLT-G										14217	94	95	77.2	
											14218	95	96	18.5	
-100															
-105	FLT-														
-110	FLT-	Sk	Diopside skarn with mottled garnet 105-109, silicified with very pink garnet; plag? 112.23-113.66, tonalite dyke, as above 113.66-121, garnet rich (80%) 122.65-124.85, tonalite dyke, as above Basal contact, 45 deg TCA												
	FLT-G														
	FLT-				1	0	0	0	0	0	0				
-115															
-120	FLT-G														
-125		And	Altered andesite with dark green groundmass, as above.		1	0	0	0	0	0					
-130															

Scale 1:300

08/26/11

15:30:31

Hole Name: RD11-10															
REDFORD IRON ORE PROJECT											Hole Length: 165.55				
Segment Start Depth: 0.00											Segment End Depth: 43.54				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
5		OB													
10		Sk	Pyroxene skarn, primarily dark green/black pyroxene with a garnet/diopside zone between 8-14.20. Minor epidote veinlets with chaotic orientation throughout pyroxene-rich zone. 20.4, 30cm narrow tonalite inclusion, likely from underlying unit.												
20	BC														
25	FLTG	Tn	Massive tonalite dyke, white-grey groundmass of qtz and plag with 15% diopside phenos, 1-3mm; 10% ankerite, 1-2mm; and trace epidote phenos.												
30															
35	FLTG	Sk	Diopside skarn, with iron staining along fractures; heavily fractured with gouge (chlorite, serpentine).												
40															
Scale 1:300			08/26/11						15:30:08						



Hole Name: RD11-10

REDFORD IRON ORE PROJECT

Hole Length: 165.55

Segment Start Depth: 43.54

Segment End Depth: 87.07

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45	FLTG	Sk	Diopside skarn, with iron staining along fractures; heavily fractured with gouge (chlorite, serpentine).											
50	FLTG	Mb	Massive marble with white to dark grey groundmass. Iron staining along fracture planes; skarn alteration halo from 55m to end of unit.											
55		Sk	Diopside skarn with lesser epidote and garnet.											
60	FLT	Mb	Marble with skarn alteration halo emanating from epidote veinlets (up to 2cm); pyroxene and epidote dominate with little to no garnet within marble. Becomes massive beyond 74m. 80 deg TCA basal contact. 77.38-78.05, Large skarn inclusions with 1-3mm Pyrr rimming and mm-scale hematite stringers											
75				0	7	0	0	0	0	2	14151	77.38	78.05	1.1
80	FLT													
85	FLT													

Scale 1:300

08/26/11

15:30:08



Hole Name: RD11-10															
REDFORD IRON ORE PROJECT										Hole Length: 165.55					
Segment Start Depth: 130.61										Segment End Depth: 174.14					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
135	FLTG	Sk	Garnet skarn, with mottled diopside and minor epidote; Increased epidote with dark pyroxene and lesser serpentine and chlorite from upper contact to 123.5. Colour of garnet appears 'muddy', more brownish-pink. Minor serpentine and chlorite along fracture planes 147-149 Iron staining along faulting with gouge												
140															
145	FLT														
	FLT														
	FLTG														
150	FLTG														
155	FLT	And	Andesite with light grey groundmass; 8% Hb, <1mm; 15-20% plag, 1-3mm; 20% qtz, <3mm; trace disseminated py; rare green phenos 1-2mm, epidote?; marcasite along fracture planes. EOH												
160															
165	BC														
170															

Scale 1:300

08/26/11

15:30:08

Hole Name: RD11-09																
REDFORD IRON ORE PROJECT											Hole Length: 164.63					
Segment Start Depth: 0.00											Segment End Depth: 43.54					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
5		OB	Unit starts as deformed garnet dominated (45%) with mottled chaotic black pyroxene (25%) throughout. Quartz veins (60tca) and veinlets throughout with minor epidote. 18.26-29.5m skarn grades into diopside dominated (60%) with pink k spar and quartz with epidote stringers(10%). Py is present as trace amounts (up to 1%) disseminated throughout. 23.67-24.24m, small section of garnet dominated skarn, same as above with iron staining.  Core is blocky													
10		Sk	Groundmass is 30% quartz and 45% plag with 10% 2-3mm pheno of green diopside? Ankerite phenos are also present 5%. Calcite veining and veinlets throughout 40 tca.  Blocky core with 23cm of gouge/pulverized core at the 32.06 m mark.	1	0	0	0	0	0	0						
15		Sk														
20		Tn	Altered andesite with green fine grained groundmass with plag phenos 2-4mm and biotite phenos up to 1mm throughout. Quartz veining at 30 tca, minor epidote stringers from 35.6-36m. 34.17-34.8m, large cubic py up to 3mm disseminated in core 5%.													
25		Tn														
30		And	Garnet (90%) dominated skarn with epidote (10%) stringers mixed throughout as well as quartz.	5	0	0	0	0	0	0						
35		And														
40		Sk	Core is broken and rubbly.													
45		Sk														

Scale 1:300

03/19/12

17:07:27

Hole Name: RD11-09														
REDFORD IRON ORE PROJECT										Hole Length: 164.63				
Segment Start Depth: 43.54										Segment End Depth: 87.07				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45		Sk	Garnet (50%) dominated skarn with epidote (10%) stringers mixed throughout as well as quartz.											
		Mb												
		And	Core is broken and rubbly.		1	0	0	0	0	0				
			Grey/white coarse grained marble. Core is broken/rubbly											
50		Mb	Altered andesite dyke, fine grained green groundmass with plag phenos (10%) up to 4mm and hb (10%) up to 2 mm lathes. Trace cubic Py disseminated throughout 1%. Grey/white coarse grained marble with calcite veining and veinlets.	10	0	0	0	0	0	0				
55		Sk	49.3m, 40cm band of altered garnet? Or poss pink K spar?, calcite and chlorite veining throughout at 45tca. Py is present up to 10% in blebs along fracture planes. Iron staining											
		Mb	Diopside dominated (60%) skarn with 30% garnet with minor epidote stringers											
60		Sk	Grey/white coarse grained marble with calcite veins and veinlets. Talc is present along some veinlets and fracture planes mixed with chlorite. Unit ends with 15cms of chlorite/clay gouge.											
65		Sk	Diopside dominated skarn (60%) with garnet 20% with minor epidote stringers and quartz veins and veinlets 60 tca. Chlorite is present along fracture planes.											
70		Mb	60.6m, 60cm intrusion of marble grey/white coarsed grained with talc and poss chlorite along veins and throughout core. 61.45-61.94m, core is rubbly with core loss, poss driller error.											
75		Sk	Skarn grades a coarse grained grey marble with epidote (10%) alteration throughout core and along veins, talc is also present along veins and veinlets. Calcite and chlorite are present along fracture planes. Unit starts with 30cm of gouge and vuggy core. 69m, 5cm band of mixed chlorite, calcite and epidote. Garnet is present along boundaries. 71-71.95m, fault with gouge and broken core. 72.7m to end of unit, Mt is present up to 10% as blebs and along veins. Skarn becomes mixed with marble past the 73m mark.	10							14101	72.7	74	1.1
											14102	74	75	31.6
											14103	75	76	6.3
											14104	76	77	2.9
											14105	77	78	29.3
											14106	78	79	16.21
											14107	79	80	29.4
											14108	80	81	32.1
80		Sk	Diopside dominated skarn (50%) with garnet (35%) and mottled pyroxene (10%). Calcite veins and veinlets and minor epidote throughout as well as relic dioritic texture. 74.4-79.6m, Mt is present throughout core up to 50% with py 10% as blebs throughout. 75.6-76.94m, intrusion of marble mixed with talc and minor epidote along veinlets. 79.6-80.23m, Band of massive Mt (90%). 82.8 to end of unit, garnet and epidote? veining 40 tca.	50	10	0	0	0	0	0				
85		Dt	Diorite dyke with 40% quartz, 25% plag and 35% hb phenos 1-2mm, unit starts with 5 cm band of epidote mixed with purple fluorite.	90										

Scale 1:300

03/19/12

17:07:27

Hole Name: RD11-09															
REDFORD IRON ORE PROJECT										Hole Length: 164.63					
Segment Start Depth: 87.07										Segment End Depth: 130.61					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
90		Dt	Diorite dyke with 40% quartz, 25% plag and 35% hb phenos 1-2mm, unit starts with 5 cm band of epidote mixed with purple fluorite.								14110	89	90	32.5	
		Mt	Impure Mt (80%-90%) mottled with white mineral (poss maganese) and black pyroxene? Talc and serpentine are present along fracture planes. 92.3-95m, Py is present throughout as blebs up to 5%, 92.7-93.22m Py increases to 25%, Cu is present 0.2% and Co 0.2% as per XRF.	80									14111	90	91
Mt (60%) becomes mixed with diopside (40%), garnet (25%) skarn at 99.7m until end of unit.	80		25	0	0	0	0	0	0		14112	91	92	73.6	
	80		25	0	0	0	0	0	0		14113	92	93	70.4	
	90		5	0	0	0	0	0	0		14114	93	94	64.4	
	90		5	0	0	0	0	0	0		14115	94	95	76.6	
	90											14116	95	96	63.4
	90											14117	96	97	70.4
	90											14118	97	98	77.8
	90											14119	98	99	47.5
	90											14120	99	100	32
100		And	Highly altered andesite dyke, dark grey groundmass with plag Garnet (60%) dominated skarn mottled with 20% diopside and k spar? Calcite veins at 30 tca.	60							14121	100	101	6.7	
105		Sk	Altered andesite dyke with green fine grained groundmass, plag (25%) phenos up to 4mm, Hb phenos (10%) 1-2mm. Quartz veins at 40 tca with minor epidote (2%). Calcite mixed with chlorite along fracture planes 108.6m, small annealed fault.												
110	FLT	And	Garnet (60%) dominated skarn mottled with diopside (20%) and k spar (10%) and minor epidote (5%) veining and stringers. Trace py (1%) disseminated throughout.												
110		Sk	Altered andesite same as described above with garnet skarn mixed in for the first 35cm of unit.	1	0	0	0	0	0	0					
115		And	113.24-114.1m, epidote with fluorite veins at 90 tca. 116.51-119.23m, fault broken and pulverized core with some gouge. Pyroxene and garnet dominated skarn mixed throughout fault zone with cubic py (10%) phenos 2-4mm disseminated throughout pyroxene skarn.	10	0	0	0	0	0	0					
120	FLTG	And	Garnet (75%) dominated skarn mottled with 20% diopside and k spar, calcite present along fracture planes.												
120		Sk	Altered andesite, same as described above.												
125		And	Garnet (75%) dominated skarn mottled with diopside (20%) and k spar, epidote (5%) stringers. Minor calcite veinlets at random orientation.												
125	FLTG	Sk	125.34-127.92m, fault broken and pulverized core with some gouge. 127.22, 45cm of bleached skarn with iron staining. 136.2-136.6m, Py 5% as blebs throughout core. Basal contact sharp, 60 deg TCA												
130															

Scale 1:300

03/19/12

17:07:27

Hole Name: RD11-09															
REDFORD IRON ORE PROJECT											Hole Length: 164.63				
Segment Start Depth: 130.61											Segment End Depth: 174.14				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
135		Sk	Garnet (75%) dominated skarn mottled with diopside (20%) and k spar,epidote (5%) stringers. Minor calcite veinlets at random orientation.		5	0	0	0	0	0					
140			125.34-127.92m, fault broken and pulverized core with some gouge. 127.22, 45cm of bleached skarn with iron staining. 136.2-136.6m, Py 5% as blebs throughout core. Basal contact sharp, 60 deg TCA												
145		And	Andesite with medium grey-green groundmass; 10% thin hb lathes, 1-4mm; 15% 1-2mm plag; groundmass appears serpentized/chloritized in some zones, hardness varies. Some silicification?												
150			Plag increases to 25% and up to 4mm beyond 151.7m, also replaces most hb lathes beyond 153m; plag decreases to 10% beyond 154, also heavily silicified.												
155		Sk	151.22, 15cmx6cm diopside skarn inclusion, flow banding at 60 deg TCA												
160	BC	Dt	Diopside skarn, with chaotic veinlets of plag and rare qtz; also darker pyroxene within and rare garnet		1	0	0	0	0	0					
165		Sk	15% plag 2-4mm; 8% hb, 1-4mm; 5% qtz, fine grained; grey-green groundmass, trace disseminated py, 1%, iron staining on fractures.												
170			Diopside skarn, as above; veinlet-sourced bleaching; minor veinlet offsets, 5mm max Diorite inclusion at 163.35, piece of overlying dyke? EOH												

Scale 1:300

03/19/12

17:07:27

Hole Name: RD11-08

REDFORD IRON ORE PROJECT

Hole Length: 196.95

Segment Start Depth: 0.00

Segment End Depth: 43.54

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
5														
10		OB	Hit cedar between 10.7-11.6m											
15														
20														
25														
30		Sk	Diopside skarn with lesser epidote and garnet; epidote appears to be sourced from the veinlets; minor calcite veinlets and blemishes of fluorite also present; some iron staining of fracture surfaces; rare k-spar stringers 29.75-30.7, altered tonalite dyke with ct @45 deg TCA 54.8, 10cm fluorite blemish 58.8, 1cm calcite vein with angular skarn breccia within 62-65.75, garnet rich, discoloured to brown from dark chlorite and serpentine alteration? Small, irregular mafic dyke 65.3-68.6m @ low angle TCA (30-40 deg)		1	0	0	0	0	0				
35	FLTG													
40	FLT													
	FLT													

Scale 1:300

08/26/11

15:26:56



Hole Name: RD11-08

REDFORD IRON ORE PROJECT

Hole Length: 196.95

Segment Start Depth: 43.54

Segment End Depth: 87.07

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45		Sk	Diopside skarn with lesser epidote and garnet; epidote appears to be sourced from the veinlets; minor calcite veinlets and blemishes of fluorite also present; some iron staining of fracture surfaces; rare k-spar stringers 29.75-30.7, altered tonalite dyke with ct @45 deg TCA 54.8, 10cm fluorite blemish 58.8, 1cm calcite vein with angular skarn breccia within 62-65.75, garnet rich, discoloured to brown from dark chlorite and serpentine alteration? Small, irregular mafic dyke 65.3-68.6m @ low angle TCA (30-40 deg)		1	0	0	0	0	0				
50	FLT													
55	FLT													
60	FLT	Mb	Marble intrusion, with above mentioned mafic dyke cutting through at low irregular angle TCA. 68.06-68.6, magnetite intrusion, with accompanying skarn; grades into next unit											
65	FLT													
70	BC FLT	Sk	Garnet skarn, with slightly "muddy" appearance due to infiltration of garnet by secondary serpentine and chlorite; much less epidote than previously; py up to 3% along fracture planes, also marcasite	25							13051	67	68	0.25
75	FLT											13052	68	69
80	BC	Mt	Massive magnetite with stringers of skarn within at chaotic orientations; 76.35-77.15, skarn intrusion at low angle TCA, 10-35 deg Trace py, disseminated, cubic; epidote stringers		3	0	0	0	0	0	13053	69	70	0.4
85	FLT											13054	70	71
90		Sk	Diopside skarn with lesser mottled garnet; epidote stringers								13055	71	73	0.35
95												13057	73	74
100		Mt	Massive magnetite, as above, unit ends in sharp contact with skarn.	70	1	0	0	0	0	0	13058	74	75	59.35
105												13059	75	76
110		Sk	Diopside skarn, garnet dominant near upper contact to 83.1m with associated epidote stringers. 82.1-82.88, core broken into "poker chips", likely driller related. Trace marcasite along fracture planes.	40							13060	76	77	33.95
115												13061	77	78
120		Mt		90							13062	78	79	18.95
125												13063	79	80
130		Sk		15							13064	81	82	27.05
135												13065	82	83
140				8							13066	83	84	0.3

Scale 1:300

08/26/11

15:26:56

Hole Name: RD11-08

REDFORD IRON ORE PROJECT

Hole Length: 196.95

Segment Start Depth: 87.07

Segment End Depth: 130.61

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
90		And	Diopside skarn, garnet dominant near upper contact to 83.1m with associated epidote stringers. 82.1-82.88, core broken into "poker chips", likely driller related. Trace marcasite along fracture planes.											
95	FLT	Sk	Altered andesite dyke, green groundmass with 15-20% 1-4mm plag lathes; up to 5% hornblende, < 1mm to 2mm. Veinlet-sourced bleaching; moderate veinlets of epidote, and lesser garnet	5	0	0	0	0	0	0				
100		And	Diopside skarn, with garnet primarily concentrated in larger meter scale zones within; epidote mottled throughout, associated most commonly with diopside or qtz veinlets (moderate, chaotic) 94.5, 1cm calcite vein at 15 deg TCA; alteration pattern suggests it predates skarn.											
105		Sk	5% disseminated cubic py @ 95.25-95.8m, appears to be assoc with local concentration of epidote and qtz veinlets											
110	FLT	Tn	Altered andesite, as above with green groundmass; plag 20%, 1mm lathes; hornblende 5-10%, <1mm; silicified with some veinlet-sourced bleaching. Garnet skarn with chaotic mottled dark pyroxene within; garnet zones are muddy and px dark grey-green to black; moderate quartz veinlets and heavier quartz veins near upper contact (pink colouration); relic diorite texture between 99.25-101.45, with pyroxene phenos up to 25% and less than 1mm.											
115	FLT	And	Tonalite dyke with 40% plag, up to 1mm, 30% qtz, generally less than 1mm, 10% green diopside? phenos, 1-3mm and up to 5% 1mm ankerite.											
120	FLT	Sk	Grey groundmass with 25% plag lathes up to 5mm; 15% qtz (1mm or less and up to 5% hornblende (less than 1mm); iron staining on fracture surfaces											
125	FLT	Tn	Pyroxene skarn, highly deformed with secondary alteration from dyke intrusion. Chloritized and serpentinized along fracture planes with flow banding at 40-50 deg TCA; bleaching near basal contact. 116.15-118.74, diorite dyke crosscutting unit at irregular, low angle TCA, roughly 10-35 deg											
130	FLT	And	Tonalite dyke, as above. Area of highly deformed skarn starting with garnet dominated with chaotic mottled black pyroxene throughout, garnet is muddy brown. Quartz is also present throughout and as veinlets along with minor calcite and poss k spar. Garnet skarn grades into diopside (50%) dominated with k spar and minor calcite veinlets. Purple fluorite can be seen along veinlets and fracture planes downhole towards contact with andesite.											
		And	Fine grey groundmass with plag phenos up to 5mm and hb less than 1 mm. Marcasite is found along fracture planes up to 5%. Iron staining throughout. Area is faulted. 128m, 30cm mafic intrusion?, fine grained dark grey groundmass possible argillite, reacts to HCl.											

Scale 1:300

08/26/11

15:26:56

Hole Name: RD11-08

REDFORD IRON ORE PROJECT

Hole Length: 196.95

Segment Start Depth: 130.61

Segment End Depth: 174.14

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
135	FLT	And	Fine grey groundmass with plag phenos up to 5mm and hb less than 1 mm. Marcasite is found along fracture planes up to 5%. Iron staining throughout. Area is faulted. 128m, 30cm mafic intrusion?, fine grained dark grey groundmass possible argillite, reacts to HCl.												
140		Sk	Garnet dominated skarn with chaotic and mottled pyroxene throughout, garnet is muddy brown, quartz is present along fractures and veins along with minor calcite.												
145			133.2-143m, Skarn grades into a diopside (60%) dominated skarn with quartz and pink k spar throughout, calcite veining (1-3mm) at 80 tca. Epidote is also present throughout in veins and veinlets increasing within the core at 141.3-143m. Minor purple fluorite can also be seen along veins in conjunction with epidote.												
150	FLTG		143-154.47m, skarn grades back into garnet dominated same as above with increased quartz bands and veining at 45 tca.												
155	FLTG		147.7m, 30cm fault broken and pulverized core ending with 5cm of gouge.												
160			152.88-157m, fault starting with 10cm of gouge, garnet skarn becomes bleached with large phenos of black pyroxene 10% (up to 5mm). Skarn grades into diopside dominated at the 154.47m of fault.												
165		Tn	154.47-159m, Diopside(60%) dominated skarn same as above with 30cm of relic dioritic texture at 155m with large plag pheno 1-2mm.												
170		Sk	159-165m, Skarn grades back into garnet dominated same as described above with areas of bleaching and large pyroxene phenos throughout up to 5mm . 162.48m, 4cm mafic dyke cross cutting skarn at 90 tca, dark fine grained groundmass poss argillitic. Py along contacts up to 2%. After 162m to contact with tonalite, epidote in conjunction with fluorite can be seen within veining. 163.26m, 10cm mafic dyke cross cutting skarn at 60 tca, same as described above.												
	FLT	Dt	Tonalite dyke, same as above												
			Highly deformed skarn with dark green/grey diopside up to 45% mottled with chaotic phenos of black pyroxene 25%. Quartz veining and veinlets as well as mottled throughout. Epidote (5%) is concentrated along veins and veinlets in conjunction with purple fluorite. 159.45, 10cm of relic dioritic texture.												
			Grano-diorite with 60% qtz, 30% plag and 10% biotite phenos mottled. Faulted contact with deformed skarn, broken core with areas of pulv. 172.2-172.4m, 5-10 cm bands of mafic dykes with pulverization. Iron staining throughout.	5											

Scale 1:300

08/26/11

15:26:56

Hole Name: RD11-08															
REDFORD IRON ORE PROJECT										Hole Length: 196.95					
Segment Start Depth: 174.14										Segment End Depth: 217.68					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
180	FLT	Dt	Grano-diorite with 60% qtz, 30% plag and 10% biotite phenos mot Faulted contact with deformed skarn, broken core with areas of pul 172.2-172.4m, 5-10 cm bands of mafic dykes with pulverization. Iron staining throughout.	5											
185			Grey groundmass with plag phenos (up to 3mm), hb 1mm or less with calcite veinlets throughout. Py is disseminated throughout 5% up to 15% along fracture planes.												
190		And	From 186.9m to 189m, large phenos 2-4mm as well as glomerocryst up to 1cm in length of black pyroxene (5%) can be seen associated with py. 189.05m, 5cm band of diorite.	5											
195		Dt	Grano-diorite same as described above with inclusions of possible garnet skarn within. Epidote veining and veinlets throughout with associated flourite blebs. Py is disseminated throughout as cubes up to 10%, poss marcasite as well along fracture planes 2%.	10											
200			EOH at 196.95m												
205															
210															
215															

Scale 1:300

08/26/11

15:26:56

Hole Name: RD11-07

REDFORD IRON ORE PROJECT

Hole Length: 199.09

Segment Start Depth: 0.00

Segment End Depth: 43.54

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
5		Dg												
	BC													
10		Sk												
15	FLT													
	FLT													
20	FLT				1	0	0	0	0	0				
	FLT													
25			Predominantly diopside skarn, flow banded at angles of 50-90 deg TCA. Fluorite(?) and k-spar flow bands; white to grey blemishes of qtz; marcasite on some fracture planes; silicified High iron staining fro 8.6- 16.1, also heavily silicified from 14.2-16.1m											
			16-21, trace diss. Py											
			18.3-20.9, Skarn garnet-dominant, 60% with 25% ep and 10% di; silica-rich											
	30 CTCDYKE		21.54, fluorite stringers locally											
	30 CTCDYKE		26.1-27.1, 27.43-28.47, 29.22-29.88, tonalite dykes with 5% garnet, 40% plag, 20% qtz, minor hornblende?											
	FLT		36.55-37.35 garnet rich band											
30			45.82-46.84, Tonalite dyke, as above											
			46.9-48.2, heavily iron-stained											
35														
40														

Scale 1:300

08/16/11

17:03:58

Hole Name: RD11-07

REDFORD IRON ORE PROJECT

Hole Length: 199.09

Segment Start Depth: 43.54

Segment End Depth: 87.07

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45	FLTG-↓	Sk	Predominantly diopside skarn, flow banded at angles of 50-90 deg TCA. Fluorite(?) and k-spar flow bands; white to grey blemishes of qtz; marcasite on some fracture planes; silicified High iron staining fro 8.6- 16.1, also heavily silicified from 14.2-16.1m											
50	FLT	Mb	16-21, trace diss. Py 18.3-20.9, Skarn garnet-dominant, 60% with 25% ep and 10% di; silica-rich 21.54, fluorite stringers locally 26.1-27.1, 27.43-28.47, 29.22-29.88, tonalite dykes with 5% garnet, 40% plag, 20% qtz, minor hornblende? 36.55-37.35 garnet rich band 45.82-46.84, Tonalite dyke, as above 46.9-48.2, heavily iron-stained											
55	FLTG-↓	Sk												
		Mb	Marble, light grey, medium grained, iron stained along fracture planes; also 51.66, cohesive 2cm vein of talc and serpentine, 90 deg TCA, healed fault? Unit ends in 10cm chloritized and serpentinized dark green dyke.	65										
60	FLT	Sk	Skarn, much less 'clean' than previous unit with varying colour and texture and more epidote. 53.6-54, small mafic dyke, serpentinized along contacts 54.47-55.2, marblized skarn, mottled grey and light green Unit starts out bleached and tan coloured for first 18cm; somewhat calcareous from contact with overlying marble	35							13001	58.98	59.28	27.25
65	FLT-↓ FLT-↓	Sk												
		Mb	Massive medium-grained grey marble, as above 57.47, 10cm mafic, serpentinized inclusion	15	0	0	0	0	0	5				
70	FLT-↓ FLT-↓	Sk	Epidote-rich skarn with mottled garnet and diopside within; flow banding visible; weakly to moderately calcareous in some areas 64.3-65, marble inclusions up to 45% 66-67, flow banded marble with epidote 67-67.8, hematite stringers along fracture planes 68-68.6, mottled magnetite within skarn, up to 15% 71-71.51, mottled magnetite within skarn, 20-25% 69.5-70.2, chaotic serpentine/chlorite/epidote stringers, crystalline Garnet grades out beyond 72m, mainly aphanitic epidote and diopside beyond. Unit ends in 2cm vein of diopside bleeding into underlying marble; contact 50 deg TCA	25							13002	71	71.51	11.8
75	FLT-↓	Mb	Massive light to dark grey marble, medium grained; with black stringers and moderate chaotic epidote veinlets throughout (up to 15% between 74.52-79); Epidote grades out beyond 91m. Basal contact with magnetite sharp, 50 deg TCA											

Scale 1:300

08/16/11

17:03:58

Hole Name: RD11-07

REDFORD IRON ORE PROJECT

Hole Length: 199.09

Segment Start Depth: 87.07

Segment End Depth: 130.61

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
90		Mb	Massive light to dark grey marble, medium grained; with black stringers and moderate chaotic epidote veinlets throughout (up to 15% between 74.52-79); Epidote grades out beyond 91m. Basal contact with magnetite sharp, 50 deg TCA													
95	FLT															
100																
105	FLT															
110																
115	FLTG	Mt	Massive black magnetite, graphitic along fractures; becomes flow banded with epidote at 125.1, resembling zebra striping, 40-50 deg TCA 116.6-117.75, blebs up to 5cm of intergrowths of py and silver pyr or apy Grades into skarn by 129.41	55							13003	115	116	20.25		
													13004	116	117	42
							5	10	0	10	0	0	13005	117	118	74
													13006	118	119	78.4
													13007	119	120	78.8
													13008	120	121	82.55
													13009	121	122	79
													13010	122	123	78.5
													13011	123	124	81.75
													13012	124	125	80.05
											13013	125	126	60.9		
											13014	126	127	45.9		
											13015	127	128	49.55		
											13016	128	129	53.55		
											13017	129	130	26.5		
130	FLTG	Sk	Diopside-dominant skarn with moderate garnet and rare epidote Minor k-spar?, bleaching beyond 131.7, along core axis 3cm Mt inclusions @130m	10												

Scale 1:300

08/16/11

17:03:58

Hole Name: RD11-07

REDFORD IRON ORE PROJECT

Hole Length: 199.09

Segment Start Depth: 130.61

Segment End Depth: 174.14

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
		Sk		10										
	FLT-	Mt	Diopside-dominant skarn with moderate garnet and rare epidote Minor k-spar?, bleaching beyond 131.7, along core axis 3cm Mt inclusions @130m	70							13018	132	133	48.35
135											13020	133	134	33.3
											13021	134	135	10.25
											13022	135	136	9.1
											13023	136	137	1.4
		Sk	Massive magnetite, as above, grades into mottled mt/ep beyond 134.31	30										
140		Sk	Diopside skarn with relic volcanic texture within diopside groundmass; plag phenos 10-15%, 1-3mm; mottled with garnet and trace ep. Heavy bleaching from 141.4-142.3m; basal contact with altered diorite @ 40 deg TCA											
145														
	BC-	Dt	Diorite dyke, silicified medium grey groundmass with 10-12% hornblende, 20% qtz and up to 20% plag. Trace disseminated Py Dark brown-black groundmass radiates out from within 30cm of contact on either side of the unit, likely garnet or mafic alteration. Minor calcite veinlets and minor bleaching halos emanating from some veinlets, up to 5mm.		1	0	0	0	0	0				
150														
		Sk												
155	50 CTCDYKE-	Gb	Garnet skarn, diopside and epidote mottled within or as minor stringers 152.22-152.67, altered diorite intrusion, resembles overlying unit with grey groundmass											
160	FLTG-		Gabbro dyke, slightly magnetic, mafic groundmass with serpentine and chlorite within fracture planes and as stringers; also marcasite.											
165	FLT-	Sk												
170	FLT-		As above, garnet skarn; very limited diopside and epidote.											

Scale 1:300

08/16/11

17:03:58



Hole Name: RD11-07

REDFORD IRON ORE PROJECT

Hole Length: 199.09

Segment Start Depth: 174.14

Segment End Depth: 217.68

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
		Sk	As above, garnet skarn; very limited diopside and epidote.											
	BC	And	Altered andesite dyke; Green-grey groundmass with 10%, 1-4mm plag; minor calcite veinlets											
-180	FLT													
	FLT	Sk	Garnet skarn, as above 184-188.3, large blocky, gougy fault with iron staining											
-185	FLTG													
		And	Altered andesite, as above											
-190		Sk	Diopside skarn with garnet mottled within; becomes heavily bleached beyond 194m 192.85-193.2, qtz dyke with angular bleached skarn inclusions											
-195		And	Altered andesite, as above, more bleaching											
	FLTG	Dt	Faulted diorite to EOH, 10-12% hornblende with 20% qtz and up to 30% plag.											
-200			EOH											
-205														
-210														
-215														

Scale 1:300

08/16/11

17:03:58

Hole Name: RD11-06

REDFORD IRON ORE PROJECT

Hole Length: 195.43

Segment Start Depth: 9.15

Segment End Depth: 52.69

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
		OB												
15		Sk	Diopside skarn, with minor epidote and garnet stringers; also 20% white, silica-rich, cherty zones. Also minor calcite and k-spar veinlets. Iron staining on fracture planes; flow banding throughout 19.25-19.8, Garnet/rhodonite-rich band 19.95-20.43, silica-rich band 22.74-23.08, Faulted diorite dyke 26.28-26.43, epidote rich band, 30 deg TCA 32.3-32.7, heavy iron staining, faulted; core becomes more heavily chloritized near basal contact											
25	FLT-C		Diorite dyke, 30% plag, 30% qtz, 25% hornblende, trace epidote phenos, 1-3mm crystals Contact @ 60 deg TCA; becomes heavily silicified beyond 37m.											
30			Heavily silicified with light grey groundmass and visible 1-3mm diopside phenos (5-8%), fine-grained otherwise.											
35	FLT-C	Dt	Diopside skarn, garnet infiltrated with high silica (or vise versa?); dendritic epidote; gougy fracture planes 39-44, fault zone											
40		And	39-42, heavily iron stained 42-43.4, infiltrated with marble											
45	FLTG-	Sk	45.1-47.8, garnet/silica increases to 40% 48.1-48.8, heavily epidotized (60-70%) with minor garnet (20%) and limited chloritized diopside (5-10%)											
50	FLTG-	Dt	Diorite, 10% hornblende phenos, up to 2mm; 30% qtz, 25% plag, 2-3mm; up to 10% faded green phenos, diopside?; iron staining throughout; trace garnet stringers; entire unit faulted and broken; trace cubic disseminated pyrite throughout 48.8-49.85, 51.1-51.5, 52-52.75, small mafic dykes with sharp contacts to diorite		0.5	0	0	0	0	0				

Scale 1:300

08/16/11

17:05:08

Hole Name: RD11-06

REDFORD IRON ORE PROJECT

Hole Length: 195.43

Segment Start Depth: 52.69

Segment End Depth: 96.22

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
55	FLTG	Dt	Diorite, 10% hornblende phenos, up to 2mm; 30% qtz, 25% plag, 2-3mm; up to 10% faded green phenos, diopside?; iron staining throughout; trace garnet stringers; entire unit faulted and broken; trace cubic disseminated pyrite throughout		0.5	0	0	0	0	0				
60			48.8-49.85, 51.1-51.5, 52-52.75, small mafic dykes with sharp contacts to diorite											
				55							12901	61	62	0.3
											12902	62	63	62.45
											12903	63	64	86.3
											12904	64	65	71.4
65											12905	65	66	70.45
											12906	66	67	69.2
				90							12907	67	68	74.5
											12908	68	69	71.5
											12909	69	70	66.7
70											12910	70	71	56.8
											12911	71	72	58.65
											12912	72	73	54.65
											12914	73	74	55.8
75											12915	74	75	60.3
											12916	75	76	60
				85							12917	76	77	54.4
											12918	77	78	56.5
											12919	78	79	44.8
80											12920	79	80	65.9
											12921	80	81	63.15
											12922	81	82	56.8
											12923	82	83	64
											12924	83	84	59.05
	FLTG			52							12925	84	85	45.4
85											12926	85	86	57
											12927	86	87	59.8
	FLT										12928	87	88	46.5
											12929	88	89	16
											12930	89	90	55.2
90				40							12931	90	91	7.65
											12932	91	92	29.45
				65							12934	92	93	56.8
											12935	93	94	59.2
95				94							12936	94	95	65.7
				95							12937	95	96	48.05
											12938	96	97	48.2

Scale 1:300

08/16/11

17:05:08

Hole Name: RD11-06

REDFORD IRON ORE PROJECT

Hole Length: 195.43

Segment Start Depth: 96.22

Segment End Depth: 139.76

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct									
100	FLT	Mt	Massive, black, graphitic along fractures, mottled with epidote and diopside up to 30%; talc, serpentine, chlorite along some fracture planes. Rare trace disseminated cubic Py. 87.45-89.7, 90.6-91.38, 91.5-91.85, zones of mottled skarn intrusion within magnetite unit; primarily epidote and diopside with actinolite? (light mint green to grey-green, almost white in some areas when dry). Ep 35%, Di 25%, Ac 5-10% 92.5-94.5, flow banding 92-96, isolated Py stringers within flow banding, 1%; Py in larger isolated blebs, 2-3% 96-97, calcite, talc, serpentine and chlorite along fracture planes 102.4-105.1, heavy gouge within fault zone, occasionally brecciated with gouge matrix, trace cubic py 106-111, epidote phenocrysts along fracture planes 111-115, Broken, faulted, pulverized; heavy talc and serpentine along fractures; trace py, rare	95							12938	96	97	49.2									
105	FLT	Mt	Massive, black, graphitic along fractures, mottled with epidote and diopside up to 30%; talc, serpentine, chlorite along some fracture planes. Rare trace disseminated cubic Py. 87.45-89.7, 90.6-91.38, 91.5-91.85, zones of mottled skarn intrusion within magnetite unit; primarily epidote and diopside with actinolite? (light mint green to grey-green, almost white in some areas when dry). Ep 35%, Di 25%, Ac 5-10% 92.5-94.5, flow banding 92-96, isolated Py stringers within flow banding, 1%; Py in larger isolated blebs, 2-3% 96-97, calcite, talc, serpentine and chlorite along fracture planes 102.4-105.1, heavy gouge within fault zone, occasionally brecciated with gouge matrix, trace cubic py 106-111, epidote phenocrysts along fracture planes 111-115, Broken, faulted, pulverized; heavy talc and serpentine along fractures; trace py, rare	60							12941	98	99	70.2									
110	FLT	Mt	Massive, black, graphitic along fractures, mottled with epidote and diopside up to 30%; talc, serpentine, chlorite along some fracture planes. Rare trace disseminated cubic Py. 87.45-89.7, 90.6-91.38, 91.5-91.85, zones of mottled skarn intrusion within magnetite unit; primarily epidote and diopside with actinolite? (light mint green to grey-green, almost white in some areas when dry). Ep 35%, Di 25%, Ac 5-10% 92.5-94.5, flow banding 92-96, isolated Py stringers within flow banding, 1%; Py in larger isolated blebs, 2-3% 96-97, calcite, talc, serpentine and chlorite along fracture planes 102.4-105.1, heavy gouge within fault zone, occasionally brecciated with gouge matrix, trace cubic py 106-111, epidote phenocrysts along fracture planes 111-115, Broken, faulted, pulverized; heavy talc and serpentine along fractures; trace py, rare	90							12942	100	101	87.05									
115	FLT	Mt	Massive, black, graphitic along fractures, mottled with epidote and diopside up to 30%; talc, serpentine, chlorite along some fracture planes. Rare trace disseminated cubic Py. 87.45-89.7, 90.6-91.38, 91.5-91.85, zones of mottled skarn intrusion within magnetite unit; primarily epidote and diopside with actinolite? (light mint green to grey-green, almost white in some areas when dry). Ep 35%, Di 25%, Ac 5-10% 92.5-94.5, flow banding 92-96, isolated Py stringers within flow banding, 1%; Py in larger isolated blebs, 2-3% 96-97, calcite, talc, serpentine and chlorite along fracture planes 102.4-105.1, heavy gouge within fault zone, occasionally brecciated with gouge matrix, trace cubic py 106-111, epidote phenocrysts along fracture planes 111-115, Broken, faulted, pulverized; heavy talc and serpentine along fractures; trace py, rare	55							12943	101	102	85.35									
120	FLT	Sk	Dark diopside-dominant skarn, with epidote in veinlets and stringers; diss cubic py min along fracture planes, 2%								12944	102	103	74.4									
125	FLT	Mt	Massive, black, similar to above unit; rare mottled epidote/diopside skarn, primarily in small stringers; graphitic								12945	103	104	31.55									
130	FLT	Sk	Garnet skarn with rare k-spar within garnet; diopside very 'clean' with few secondary minerals; chloritized fracture planes with associated diss. Py, 3%.								12946	104	105	1.25									
135	FLT	Dt	Diorite dyke, similar to above unit; heavy iron staining along fracture planes, very broken core. Less silicified beyond 138m. 138.1, 10cm gabbro? Inclusion, porphyritic with dark grey groundmass and 1-3mm plag lathes Grain size increases from 1-2mm to up to 3.5mm beyond 138m 138-141.52, veinlet-sourced bleaching								12947	105	106	78.3									

Scale 1:300

08/16/11

17:05:08

Hole Name: RD11-06

REDFORD IRON ORE PROJECT

Hole Length: 195.43

Segment Start Depth: 139.76

Segment End Depth: 183.29

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
		Dt												
145	FLT	Sk	Diorite dyke, similar to above unit; heavy iron staining along fracture planes, very broken core. Less silicified beyond 138m. 138.1, 10cm gabbro? Inclusion, porphyritic with dark grey groundmass and 1-3mm plag lathes Grain size increases from 1-2mm to up to 3.5mm beyond 138m 138-141.52, veinlet-sourced bleaching		10	4	0	0	0	0	12974	143	144	12.25
150	45 FLT	Mt	Garnet skarn; very little secondary minerals, rare epidote 143.18-143.8, magnetite intrusion, with skarn and up to 12% sulphides (Py, Pr, trace Cpy) along with marcasite (1-3%) 144-151.82, garnet increases to 85% with minor pyroxene and hard white inclusions (qtz?)	51							12975	151	151.52	0.65
				51							12976	151.52	152.52	3.25
	FLT										12977	152.52	153.52	24.7
											12978	153.52	154	3.9
155			Magnetite (51%) well mottled with pyroxene skarn (darker than the diopside) with lesser garnet, 30% and 10% respectively; graphitic and faulted with serpentine, chlorite and talc along fracture planes; up to 5% diss. cubic pyrite											
160		Sk												
165	FLT		Garnet skarn, as above; with minor diopside and other darker pyroxenes; heavy iron staining beyond 166.; brecciated zone with gouge matrix @ 165.55-166.77; serpentine, talc and chlorite along fracture planes; 168-168.8, diopside-rich band with 2cm qtz vein @ 15 deg TCA											
	FLT		Various large faults between 162-169 (see Structure tab)											
170		And			1	0	0	0	0	0				
175	FLT		Andesite dyke, 8%hb lathes 1-4mm, 12% plag, 1-2mm, rest of groundmass grey-green, aphanitic; Trace cubic Py up to 1% Contacts @ 55deg for upper and roughly 70 deg TCA for the lower, though it is quite fluidic and irregular											
180	FLT FLT	Sk	Garnet skarn; similar to above with limited pyroxene (darker than diopside) and epidote; minor calcite veinlets; becomes diopside dominant beyond 180m with chaotic rhodonite veinlets qtz and limited garnet and epidote, some flow banding visible 178.3-178.5, 30cm diopside-rich band 172.45-173.2, diorite dyke, 10% diopside, 35% plag, 10% hb, 20% qtz; minor calcite											

Scale 1:300

08/16/11

17:05:08

Hole Name: RD11-06

REDFORD IRON ORE PROJECT

Hole Length: 195.43

Segment Start Depth: 183.29

Segment End Depth: 226.83

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
185	FLT- FLTG-	Sk	Garnet skarn; similar to above with limited pyroxene (darker than diopside) and epidote; minor calcite veinlets; becomes diopside dominant beyond 180m with chaotic rhodonite veinlets qtz and limited garnet and epidote, some flow banding visible 178.3-178.5, 30cm diopside-rich band 172.45-173.2, diorite dyke, 10% diopside, 35% plag, 10% hb, 20% qtz; minor calcite											
190		Dt		1	0	0	0	0	0					
195	FLTG-		Diorite, 15% hb lathes, 1-3mm, 30% plag, 2-3mm, 20% qtz, 2-3mm; with up to 10% diopside and trace py; gougy and iron-stained on fracture surfaces. 190.4, 10cm pyroxene skarn intrusion (px 80%, gn 10%) 192.7, 20cm pyroxene skarn intrusion, as above 194.4- EOH, faulted with gouge, serpentine, chlorite, talc, and pyroxene skarn intrusion, as above. 195.43, EOH											
200														
205														
210														
215														
220														
225														

Scale 1:300

08/16/11

17:05:09

Hole Name: RD11-05

REDFORD IRON ORE PROJECT

Hole Length: 197.87

Segment Start Depth: 4.60

Segment End Depth: 48.14

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
10		OB												
15	BC													
20		Sk	Diopside-dominant skarn with well defined flow banding; bleached along fracture planes with iron staining throughout. Trace py -in stringers and blebs, 2% or less. 13.00-17.88, increased silicification 17.88-22.5, unit becomes chlorite rich with trace epidote and decreased silica (5-10%) Isolated fluorite blebs @ 19.5m, 26.5m 18-20m, Local k-spar veins (up to 5mm), chaotic, trace throughout 22.5-27.2m, very silicified 27-30m, local hematite, 3-5% Epidote rich band @ 29.85-31m Garnet increases after 33m, 20%; silicification decreases	2	0	0	0	0	0	0				
25	FLTG- FLT- FLT- FLT-													
30	FLTG- FLTG-				0	0	0	0	0	5				
35		Dt	50% plag, 35% hornblende lathes, 15% quartz and other; equigranular (1-3mm). Moderate veinlet-sourced bleaching with 5mm halos and iron staining along fractures	3	0	0	0	0	0	0				
40	FLT- FLT- FLTG- FLTG- FLTG-		Garnet-dominant skarn with minor calcite veins and quartz veins; chlorite along fracture planes 45.2-46m, silica-rich band, trace py											
45	FLTG- FLT-	Sk Dt	60% plag, 30% hornblende, 10% quartz, increased iron staining ; dessicated phenocrysts; 1-4mm 48-49m, 10% epidote replacement of some phenos and increased quartz phenos	1	0	0	0	0	0	0				

Scale 1:300

08/16/11

17:05:27

Hole Name: RD11-05

REDFORD IRON ORE PROJECT

Hole Length: 197.87

Segment Start Depth: 48.14

Segment End Depth: 91.67

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
50	FLT-1	Dt	60% plag, 30% hornblende, 10% quartz, increased iron staining ; desiccated phenocrysts; 1-4mm 48-49m, 10% epidote replacement of some phenos and increased quartz phenos													
55		Sk														
60	FLT-	Mt	Garnet-dominant skarn, as above; 52.3m, 35cm chloritized diopide skarn inclusion; Diopside increases at 54-57.64 (30%) 55.2-55.57- sharp, fluidic contact with mafic band of chloritized diopsidic skarn with associated marcasite on fracture planes	70							12851	57	58	9.4		
				90									12852	58	59	65.9
				5									12853	59	60	77.15
				80									12854	60	61	81.95
				5									12855	61	62	59.55
				80									12856	62	63	80.25
				5									12857	63	64	63.3
				95									12858	64	65	83.2
				5									12859	65	66	81.7
				65									12860	66	67	70.15
70		Sk	Diopside /epidote skarn, with mottled texture and minor silicification; rare qtz veinlets and minor calcite veinlets; heavily intruded with magnetite (40%); less chloritization than previous units; actinolite mineralization dominant in zones of high magnetite infiltration.	45												
				49									12861	67	68	50.55
				35									12862	68	69	23.9
				5									12863	69	70	47.2
				5									12864	70	71	65.6
				5									12865	71	72	32.1
75		Dt	40% plag, 35% hornblende, 15% garnet, 10% epidote, altered phenocrysts; 1-4mm; silicified								12866	72	73	46.1		
80		Sk	Garnet skarn, much higher % of garnet than previous units, otherwise as above. Diopside and chlorite increases between 75-79m; Py 4% 85-87.65m 79.8m, 5 cm qtz? Inclusion													
85	FLT-1 FLT-															
90		Mt	Massive magnetite, as above, 70%; Py 4%, disseminated, graphitic fractures; rare skarn inclusions, primarily epidote	10	4	0	0	0	0	0	12869	85	86	0.5		
		Sk	Garnet-dominant skarn, as above; epidote in chaotic veinlets	70							12870	86	87	5.85		
				5									12871	87	88	29.3
				5									12872	88	89	57.6
				10									12873	89	90	17
				1									12874	90	91	2.25
											12875	91	92	1		

Scale 1:300

08/16/11

17:05:27



Hole Name: RD11-05

REDFORD IRON ORE PROJECT

Hole Length: 197.87

Segment Start Depth: 91.67

Segment End Depth: 135.21

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
95		Sk	Garnet-dominant skarn, as above; epidote in chaotic veinlets	10							12875	91	92	1
											12876	92	93	0.5
											12877	93	94	1.2
											12878	94	95	1.2
											12879	95	96	0.3
											12880	96	97	0.6
											12881	97	98	0.5
											12882	98	99	0.7
											12883	99	100	0.25
100		Mt	Massive magnetite, 75% with blotches of actinolite, epidote and diopside skarn, chloritized and epidotized with some silicification. Trace py.	75							12884	100	101	6.05
											12885	101	102	8.5
											12886	102	103	4.85
											12887	103	104	5.6
											12889	104	105	2
											12890	105	106	0.2
105		Sk	Garnet-dominant skarn, as above; increased garnet from previous units; rare qtz veinlets @ 40-50 deg TCA 105-107.85 zone of garnet-deficient, silicified, chloritized diopside skarn, chill zone? 115.7, 5cm 40 deg TCA epidotized band of andesite with calcite within 126-127, trace blebs of Pyr and Cpy											
110		Sk	Altered diorite dyke, light grey, slightly porphyritic near upper contact; 15% hornblende lathes, 10% plag, 10% qtz, with dessiciated phenos; silicified with trace Py and marcasite on fractute planes; groundmass darkens to dark grey by end of unit.											
115		Sk	Tonalite dyke with sharp contact to overlying diorite; fine-grained, highly siliceous, up to 10% mafic phenos (mainly hb); with qtz and plag making up majority of the rest (35% and 40% respectively) ; 5-8% green-altered phenos (epidote?) and 5% ankerite?. Minor calcite veinlets throughout.											
120		Sk	133.5-136.5, calcite vein set, 2-3cm with hornblende phenos (20-25%) emanating from it in 2-3cm halo, also vuggy. Hb stays at 15% beyond 136.5. Minor iron staining throughout.		0	1	1	0	0	0				
125	FLT	Dt	142.38-143.32, skarn intrusion with same lithology as previous skarn unit.											
130	FLT	Tn	Veinlet-sourced hb clusters and minor garnetized veinlets appear at 143.5											
135	FLTG	Tn												

Scale 1:300

08/16/11

17:05:27

Hole Name: RD11-05

REDFORD IRON ORE PROJECT

Hole Length: 197.87

Segment Start Depth: 135.21

Segment End Depth: 178.74

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
140	FLT	Tn	Tonalite dyke with sharp contact to overlying diorite; fine-grained, highly siliceous, up to 10% mafic phenos (mainly hb); with qtz and plag making up majority of the rest (35% and 40% respectively) ; 5-8% green-altered phenos (epidote?) and 5% ankerite?. Minor calcite veinlets throughout.											
145	FLTG		133.5-136.5, calcite vein set, 2-3cm with hornblende phenos (20-25%) emanating from it in 2-3cm halo, also vuggy. Hb stays at 15% beyond 136.5. Minor iron staining throughout.											
150	FLTG		142.38-143.32, skarn intrusion with same lithology as previous skarn unit.											
155	FLT	Sk	Veinlet-sourced hb clusters and minor garnetized veinlets appear at 143.5  Garnet skarn, very similar to previous skarn unit. Minor calcite veins and veinlets; Large calcite vein (3.5cm) at 151.06-152.5 at low angle TCA.		1	0	0	0	0	0				
160			148.56-148.66, 150.33-151.05, 152.7-153, small mafic dykes, dark grey groundmass with 10% hb lathes and 1-3% cubic pyrite											
165			160.3, epidote increases to 10% (primarily in veins; may be altered from calcite); also more siliceous											
170	CTC	Dt	166.38-166.7, Diorite dyke											
175	FLT	Tn	166.8-169.41, garnet decreases to below 5%, visible flow banding with intermixed epidote and chloritized diopside; calcareous and siliceous											
	BC	Dt	168-169.41, unit ends in heavily chloritized/serpentinized section with garnet, clay, diopside and calcite.											
			Diorite, 40% plag, 20% qtz, 15-20% hornblende. 2-3mm; trace epidote and garnet stringers throughout along with disseminated Py (1-3%) and minor calcite veins.		5	0	0	0	0	0	12891	161	162	0.55
			Tonalite Dyke, fine-grained, light grey groundmass; well silicified with 10% mafic minerals (hb); marcasite present along fracture planes (up to 5%). Py disseminated, 1%; large calcite nodules, (20%, 3mm) appear beyond 175m to end of unit		1	0	0	0	0	0	12892	162	163	0.5
			177.72, 20cm diorite inclusion near basal contact		5	0	0	0	0	0	12893	163	164	0.25
											12894	164	165	0.45
											12895	165	166	0.9
											12896	166	167	0.3
			Diorite, similar to previous diorite unit; trace garnet and epidote alteration in stringers and blebs; garnet disappears beyond 18m, epidote persists to EOH.		3	0	0	0	0	0				
			184.7-185.06, mafic dyke, 10% hb with chaotic, altered stringers of clay and talc		1	0	0	0	0	0				
			185-191, iron staining											
			196.1, 3cm mafic volcanic inclusion, grey groundmass with plagioclase (12%)		5	0	0	0	0	5				
			EOH											

Scale 1:300

08/16/11

17:05:27

Hole Name: RD11-05																
REDFORD IRON ORE PROJECT										Hole Length: 197.87						
Segment Start Depth: 178.74										Segment End Depth: 222.28						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
180	BC	Dt	Diorite, similar to previous diorite unit; trace garnet and epidote alteration in stringers and blebs; garnet disappears beyond 18m, epidote persists to EOH. 184.7-185.06, mafic dyke, 10% hb with chaotic, altered stringers of clay and talc 185-191, iron staining 196.1, 3cm mafic volcanic inclusion, grey groundmass with plagioclase (12%) EOH		5	0	0	0	0	5						
185	FLTG															
	FLTG															
190	FLT						5	0	0	0	0	0				
195																
200																
205																
210																
215																
220																

Scale 1:300

08/16/11

17:05:27

Hole Name: RD11-04

REDFORD IRON ORE PROJECT

Hole Length: 231.10

Segment Start Depth: 0.00

Segment End Depth: 43.54

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
5		OB			1	0	0	0	0	0				
10		Mb	<p>Fine grained light grey/white marble, coarsening downhole with calcite veinlets and trace py 1% throughout, cubic and disseminated.</p> <p>5-11.28m, py increases to 10% along fracture planes.</p> <p>18-21m, marble becomes more silicious.</p> <p>25-27m, marble becomes more banded with thick bands of calcite.</p> <p>27.8m, 20cm band of altered marble with soft green talc and iron staining, poss chlorite as well.</p> <p>28-30.5m, marble becomes more silicious again.</p> <p>28.13, 5 cm band of soft green talc.</p> <p>30m, more talc/chlorite alteration, along with iron staining.</p> <p>31.96-32.93m, Fault with broken and pulverized marble starting with 25cm of soft grey clay like gouge.</p> <p>37.27-38m, Poss faulted dyke? Core becomes very rubbly with pieces of altered diorite? Groundmass is beige with hb phenos, pieces of marble are also present.</p> <p>38.15m, 6cm band of grey/beige clay like gouge material.</p> <p>40.31m, py veinlet locally 2%.</p> <p>46-46.72m, bands of talc and chlorite with some calcite along fracture planes. Also inclusions of soft reddish talc or chlorite? in marble</p> <p>47.72m, 65cm band of altered marble, mottled with rhodonite and soft light green alteration mineral throughout, poss chlorite? Rhodonite is also present in veins and veinlets at random orientation. Py in veinlets and as blebs up to 2%, pyr up to 2% in blebs throughout.</p> <p>52m, 7cm argillitic dyke? silious green/grey fine grained groundmass, seems to have some bedding, py present in vein up to 2%.</p> <p>55.54m, 15cm dyke, same as above, pyr up to 5% along fracture planes.</p> <p>56.33m, 10cm dyke same as above with calcite phenos, pyr 2%.</p> <p>61.24m, 10cm dyke of fairly soft, beige/grey clay, with calcite phenos and trace py.</p> <p>63.45, 3cm band of soft beige clay with calcite phenos py 5% as blebs.</p> <p>65.66m, 20cm intrusion of very fine grained red/brown groundmass, silious with 2-4 mm calcite phenos and trace biotite?, poss altered diorite or argillite?? Py 5% cubic and in blebs.</p>	10	0	0	0	0	0					
40	FLT-  FLT-				2	0	0	0	0	0	0			

Scale 1:300

08/26/11

15:26:22

Hole Name: RD11-04

REDFORD IRON ORE PROJECT

Hole Length: 231.10

Segment Start Depth: 43.54

Segment End Depth: 87.07

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
45		Mb	Fine grained light grey/white marble, coarsening downhole with calcite veinlets and trace py 1% throughout, cubic and disseminated. 5-11.28m, py increases to 10% along fracture planes. 18-21m, marble becomes more silicious. 25-27m, marble becomes more banded with thick bands of calcite. 27.8m, 20cm band of altered marble with soft green talc and iron staining, poss chlorite as well. 28-30.5m, marble becomes more silicious again. 28.13, 5 cm band of soft green talc. 30m, more talc/chlorite alteration, along with iron staining. 31.96-32.93m, Fault with broken and pulverized marble starting with 25cm of soft grey clay like gouge. 37.27-38m, Poss faulted dyke? Core becomes very rubbly with pieces of altered diorite? Groundmass is beige with hb phenos, pieces of marble are also present. 38.15m, 6cm band of grey/beige clay like gouge material. 40.31m, py veinlet locally 2%. 46-46.72m, bands of talc and chlorite with some calcite along fracture planes. Also inclusions of soft reddish talc or chlorite? in marble 47.72m, 65cm band of altered marble, mottled with rhodonite and soft light green alteration mineral throughout, poss chlorite? Rhodonite is also present in veins and veinlets at random orientation. Py in veinlets and as blebs up to 2%, pyr up to 2% in blebs throughout.		2	2	0	0	0	0				
50					2	0	0	0	0	0				
55					0	5	0	0	0	0				
					0	2	0	0	0	0				
60					1	0	0	0	0	0				
65					5	0	0	0	0	0				
70														
75			Dt	65.66m, 20cm intrusion of very fine grained red/brown groundmass, silious with 2-4 mm calcite phenos and trace biotite?, poss altered diorite or argillite?? Py 5% cubic and in blebs.										
80				Diorite with fine grained groundmass, alternating between light to dark grey with plag and calcite phenos 1-3mm scale, biotite or hb also present. Py, cubic and disseminated throughout up to 1 % as well as chlorite along fracture planes and calcite veinlets. 79.7-84.51m, increase in py to 20% along fracture planes. 93-103m py increases again to 15% along fracture planes and disseminated throughout core. 94.87-101m, core becomes highly fractionated with chlorite and some calcite infilling fracture planes 100.2m, py infilling chlorite vein py 10% locally.	20	0	0	0	0	0				
85														

Scale 1:300

08/26/11

15:26:22

Hole Name: RD11-04

REDFORD IRON ORE PROJECT

Hole Length: 231.10

Segment Start Depth: 87.07

Segment End Depth: 130.61

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
90		Dt	<p>Diorite with fine grained groundmass, alternating between light to dark grey with plag and calcite phenos 1-3mm scale, biotite or hb also present. Py, cubic and disseminated throughout up to 1 % as well as chlorite along fracture planes and calcite veinlets.                      79.7-84.51m, increase in py to 20% along fracture planes.                      93-103m py increases again to 15% along fracture planes and disseminated throughout core.                      94.87-101m, core becomes highly fractionated with chlorite and some calcite infilling fracture planes                      100.2m, py infilling chlorite vein py 10% locally.</p>												
95						15	0	0	0	0	0				
100				10	0	0	0	0	0						
105		Mb	<p>White to grey coarse grained marble with calcite veins and veinlets at random orientation. Chlorite is along fracture planes</p> <p>111.35-112.2m, intrusion of altered bleached skarn, ep and garnet, highly silious with discontinous quartz vein (&gt;1cm). Chlorite along fracture planes.                      112.2-113.5m, soft green talc along veins and veinlets.                      116.9-119.11m, skarn intrusion with garnet and epidote as well calcite/chlorite along fracture planes. Rhodonite can be seen throughout section as replacing or being replaced by garnet.                      118.57-119.11m, intrusion ends with bands of altered skarn/marble at the 118.57m mark an inclusion of rhodonite can be seen in garnet (pic).                      122.08m, 8cm dyke of very fine grey/biege groundmass with calcite phenos. Py along fracture planes 1%.                      124.17m, 10cm intrusion of altered skarn? green to dark geen groundmass with bands of garnet throughout.</p>												
110															
115						1	0	0	0	0	0				
120															
125															
130		Dt	<p>Diorite dyke, light to dark grey fine grained ground mass with plag and hb phenos 1-2mm, py cubic anddisseminated throughout 2% increasing as blebs along fracture planes 10%.</p>	2	0	0	0	0	0						

Scale 1:300

08/26/11

15:26:22

Hole Name: RD11-04

REDFORD IRON ORE PROJECT

Hole Length: 231.10

Segment Start Depth: 130.61

Segment End Depth: 174.14

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
		Dt	Diorite dyke, light to dark grey fine grained ground mass with plag and hb phenos 1-2mm, py cubic and disseminated throughout 2% increasing as blebs along fracture planes 10%.		2	0	0	0	0	0				
135		Mb	White to grey, medium grained marble with calcite veins and veinlets, trace py throughout. 136.6m, 15cm band of skarn with pyroxene (75%) and gn (25%). 138.57-139m, section of marble is altered, with light green/yellow chlorite? and rhodonite, section is highly silicious. 140.75m, 18cm band of skarn with broken bands of Mt. 141.85m, unit ends with 15cm of soft green talc veins and veinlets at random orientation.											
140			Unit starts with 18cm of altered skarn with Mt and py throughout as blebs and along veins/veinlets, py up to 30% transitioning into garnet dominated skarn with green pyroxene which then grades into massive Mt by 143.50m. Mt is massive becoming increasingly more impure downhole with chlorite? alteration.	95	30	0	0	0	0	0	12801	140.5	141	13.2
			144.5m, 10 cm band of calcite veining with py up to 30% locally.	90							12802	141	142	0.6
			145-153.65m, fault with gouge, broken and pulverized Mt.	45							12803	142	143	3.7
			156-157.5m, intrusion of bleached and altered skarn with blebs of Mt.	65							12805	143	144	37
145			158.63m, 38cm section of massive Mt mixed with pyr (30%).	30							12806	144	145	63.7
			159m, unit ends with 25cm of gouge.								12807	145	146	73.9
			Diopside dominated skarn with garnet 25% with calcite veins (30) and veinlets at random orientation. Chlorite is along fracture planes.	60							12808	146	147	73.7
			164.30m, epidote vein mm scale, 30 TCA								12819	147	148	71
			166.3m, 3cm band of Mt.								12809	148	149	61.4
150		Mt	167.6-190m, skarn becomes mixed with Mt downhole, alternating between 10% up to 60% Mt at times. Py disseminated throughout 5%, increasing to 15% within Mt zones.								12820	149	150	78.4
			167.6-169m, pyr present up to 15%								12810	150	151	81.6
			174.85m, 20cm band of alteration with mottled calcite and chlorite. Py also present as blebs 10% and pyr 10%.								12811	151	152	74.6
			175.3m 20cm band of calcite veining with py infilling 20% locally.								12812	152	153	69.8
			176m, 10cm of gouge, soft chlorite/clay mix								12813	153	154	74
155			181.55-182m, fault, pulverized skarn with Mt and core loss.	10							12814	154	155	70.8
			182.4-183m, fault starting with 20cm of solidified gouge, soft clay/calcite material. Pulverized bleached altered skarn.	20							12815	155	156	62.5
			189-190m, pyr mixed with Mt and skarn, up to 20%, py up to 5%.								12816	156	157	12.8
			190-196.6m, skarn becomes altered with increasing mottled texture with silicious calcite. Calcite and epidote veining throughout (60tca). At 190.2m fairly hard, non reactive light to dark purple mineral can be seen along veins, poss fluorite?								12817	157	158	33.8
			195.72m, 36cm dyke of very fine grain black grading to light grey silicious material.	70	0	30	0	0	0	0	12818	158	159	26.7
160			197.4-199m, garnet increases within skarn to 40%.								12846	159	160	11.5
			203.9 to end of unit, skarn become mixed with Mt 5% to 30% in some areas, py is present as blebs throughout, 10% up to 25% in some areas.											
		Sk		99										
165											12821	167	168	5.1
											12822	168	169	26.4
											12823	169	170	65.2
											12825	170	171	45
170				45	5	0	0	0	0	0	12826	171	172	2
											12827	172	173	21.7
											12828	173	174	60.6
											12829	174	175	13.9

Scale 1:300

08/26/11

15:26:22

Hole Name: RD11-04

REDFORD IRON ORE PROJECT

Hole Length: 231.10

Segment Start Depth: 174.14

Segment End Depth: 217.68

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
					5	0	0	0	0	0	12829	174	175	13.9
					20	0	0	0	0	0	12830	175	176	44.1
											12831	176	177	2
											12832	177	178	18.2
											12833	178	179	20.7
180	FLT-C FLTG-C		Diopside dominated skarn with garnet 25% with calcite veins (30) and veinlets at random orientation. Chlorite is along fracture planes. 164.30m, epidote vein mm scale, 30 TCA 166.3m, 3cm band of Mt. 167.6-190m, skarn becomes mixed with Mt downhole, alternating between 10% up to 60% Mt at times. Py disseminated throughout 5%, increasing to 15% within Mt zones. 167.6-169m, pyr present up to 15%	45							12834	179	180	13.7
											12835	180	181	26
											12836	181	182	14.6
											12837	182	183	2.2
											12838	183	184	13.2
185											12839	184	185	23.3
											12840	185	186	8.6
											12841	186	187	1.1
											12842	187	188	0.4
											12843	188	189	11.2
190		Sk	175.3m 20cm band of calcite veining with py infilling 20% locally. 176m, 10cm of gouge, soft chlorite/clay mix 181.55-182m, fault, pulverized skarn with Mt and core loss. 182.4-183m, fault starting with 20cm of solidified gouge, soft clay/calcite material. Pulerized bleached altered skarn. 189-190m, pyr mixed with Mt and skarn, up to 20%, py up to 5%. 190-196.6m, skarn becomes altered with increasing mottled texture with silious calcite. Calcite and epidote veining throughout (60tca). At 190.2m fairly hard, non reactive light to dark purple mineral can be seen along veins, poss fluorite? 195.72m, 36cm dyke of very fine grain black grading to light grey silious material. 197.4-199m, garnet increases within skarn to 40%. 203.9 to end of unit, skarn become mixed with Mt 5% to 30% in some areas, py is present as blebs throughout, 10% up to 25% in some areas.		5	10	0	0	0	0	12845	189	190	23.7
195	CTCDYKE													
200														
205					15	10	0	0	0	0	12847	203.7	205	17
											12848	205	206	30.8
											12849	206	207	29.4
210		Dt	Diorite dyke, fine grained light grey groundmass with plag and biotite phenos as well as calcite. Trace py, cubic and dissmeniated throughout. Silicified.											
215			Garnet skarn, chlorite and minor epidote along fracture planes, somewhat calcareous, non-garnet zones dominated by px alteration with minor diopside, 5% cubic py, some surfaces slightly gouggy near end of hole, chloritized, with clay alteration, minor calcite veinlets throughout, epidote primarily at top of unit decreases with depth. EOH 231.1m.		1	0	0	0	0	0				
		Sk			3	0	0	0	0	0				

Scale 1:300

08/26/11

15:26:22



Hole Name: RD11-04															
REDFORD IRON ORE PROJECT										Hole Length: 231.10					
Segment Start Depth: 217.68										Segment End Depth: 261.22					
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
-220		Sk	Garnet skarn, chlorite and minor epidote along fracture planes, somewhat calcareous, non-garnet zones dominated by px alteration with minor diopside, 5% cubic py, some surfaces slightly gougry near end of hole, chloritized, with clay alteration, minor calcite veinlets throughout, epidote primarily at top of unit decreases with depth. EOH 231.1m.												
-225				3	0	0	0	0	0						
-230															
-235															
-240															
-245															
-250															
-255															
-260															
Scale 1:300			08/26/11					15:26:22							

Hole Name: RD11-03																	
REDFORD IRON ORE PROJECT											Hole Length: 195.70						
Segment Start Depth: 38.97											Segment End Depth: 67.99						
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct			
40		Mb	<p>Light grey/white fine grained marble with calcite veinlets with trace py, cubic disseminated throughout. Core is broken. Marble becomes coarser grained downhole.</p> <p>4.57-10.67m, Py in blebs increases locally along fracture planes to 5% 6-10m, marble becomes more silicified.</p> <p>12.20-13.34m, py increases along fracture planes to 5%.</p> <p>22.4-24.1m, marble becomes altered with an increase in calcite veins and veinlets with random orientation.</p> <p>23.5-23.9m, soft beige talc/clay veins can be seen over a 1cm wide with increased calcite alteration.</p> <p>24.35m, 40cm argillite dyke with py up to 25% in blebs and disseminated throughout. Dyke ends with 5-10cm of talc.</p> <p>25.71m, 32cm dyke intruding marble, dyke starts with 7cm of soft beige clay/talc which is in sharp contact with 22cm of soft green talc . Dyke also contains pieces of marble inclusions.</p> <p>26.4-28.30m, small fault with broken and rubbly marble as well as argillite rubble.</p> <p>46.1m, 40cm dyke of altered diorite?, groundmass is reddish brown silicified with hb and some calcite phenos, py cubic and disseminated throughout up to 5%, poss apy as well.</p> <p>51.2-52.1m, dyke material, poss altered diorite? Grey silicious goundmass with reddish brown, hb lathes and rhodonite is also present at dyke contact (52.1m). Py and poss apy present up to 2% along fracture planes as well as chlorite/clay gouge.</p> <p>52.75m, 25cm dyke, same material as above with an increase in py up to 15% as blebs along fracture planes.</p> <p>53.6m, 30cm dyke, same material as above, py 5% as blebs along fracture planes.</p> <p>55.35, 10cm dyke of soft grey/brown clay/talc with calcite phenos, py up to 10% as blebs throughout.</p> <p>59.35m, 20cm of coarse grained marble with inclusions of dark grey finer grained marble and poss hem 2% along discontinous veins.</p> <p>60.24m, 60cm of altered marble with emerald green mineral poss chlorite? Pyr 1% (60.6m) locally along calcite vein.</p> <p>77.64m, chlorite veining 1cm and greater, 50TCA</p> <p>79.44-80.2m, diorite dyke, py cubic, disseminated throughout 1%</p> <p>90.51m, 22cm of soft grey/beige clay/talc gouge.</p> <p>94.1-96.2m Dyke, soft grey clay with talc. Calcite veinlets and chlorite along fracture planes. Areas of dyke are pulverized.</p> <p>98.77m band of Mt and green talc with chlorite and clay gouge along fracture plane.</p>														
45							5	0	0	0	0	0					
50							2	0	0	2	0	0					
55							15	0	0	0	0	0					
							5	0	0	0	0	0					
							10	0	0	0	0	0					
60							0	0	0	0	0	2					
							0	1	0	0	0	0					
65																	

Scale 1:200

08/16/11

17:12:56

Hole Name: RD11-03															
REDFORD IRON ORE PROJECT											Hole Length: 195.70				
Segment Start Depth: 67.99											Segment End Depth: 97.02				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
70		Mb	Light grey/white fine grained marble with calcite veinlets with trace py, cubic disseminated throughout. Core is broken. Marble becomes coarser grained downhole.												
75			4.57-10.67m, Py in blebs increases locally along fracture planes to 5% 6-10m, marble becomes more silicified. 12.20-13.34m, py increases along fracture planes to 5%. 22.4-24.1m, marble becomes altered with an increase in calcite veins and veinlets with random orientation. 23.5-23.9m, soft beige talc/clay veins can be seen over a 1cm wide with increased calcite alteration. 24.35m, 40cm argillite dyke with py up to 25% in blebs and disseminated throughout. Dyke ends with 5-10cm of talc. 25.71m, 32cm dyke intruding marble, dyke starts with 7cm of soft beige clay/talc which is in sharp contact with 22cm of soft green talc. Dyke also contains pieces of marble inclusions.												
80			26.4-28.30m, small fault with broken and rubbly marble as well as argillite rubble. 46.1m, 40cm dyke of altered diorite?, groundmass is reddish brown silicified with hb and some calcite phenos, py cubic and disseminated throughout up to 5%, poss apy as well. 51.2-52.1m, dyke material, poss altered diorite? Grey silicious goundmass with reddish brown, hb lathes and rhodonite is also present at dyke contact (52.1m). Py and poss apy present up to 2% along fracture planes as well as chlorite/clay gouge. 52.75m, 25cm dyke, same material as above with an increase in py up to 15% as blebs along fracture planes. 53.6m, 30cm dyke, same material as above, py 5% as blebs along fracture planes. 55.35, 10cm dyke of soft grey/brown clay/talc with calcite phenos, py up to 10% as blebs throughout. 59.35m, 20cm of coarse grained marble with inclusions of dark grey finer grained marble and poss hem 2% along discontinuous veins. 60.24m, 60cm of altered marble with emerald green mineral poss chlorite? Pyr 1% (60.6m) locally along calcite vein. 77.64m, chlorite veining 1cm and greater, 50TCA 79.44-80.2m, diorite dyke, py cubic, disseminated throughout 1% 90.51m, 22cm of soft grey/beige clay/talc gouge. 94.1-96.2m Dyke, soft grey clay with talc. Calcite veinlets and chlorite along fracture planes. Areas of dyke are pulverized. 98.77m band of Mt and green talc with chlorite and clay gouge along fracture plane.	1	0	0	0	0	0						
85															
90															
95															

Scale 1:200

08/16/11

17:12:56

Hole Name: RD11-03

REDFORD IRON ORE PROJECT

Hole Length: 195.70

Segment Start Depth: 97.02

Segment End Depth: 126.04

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
100	FLTG	Mb	Light grey/white fine grained marble with calcite veinlets with trace py, cubic disseminated throughout. Core is broken. Marble becomes coarser grained downhole.								12702	98	99	3.5		
		Mt	4.57-10.67m, Py in blebs increases locally along fracture planes to 5% 6-10m, marble becomes more silicified.	85								12703	99	100	46.2	
			12.20-13.34m, py increases along fracture planes to 5%.									12704	100	101	19.6	
			22.4-24.1m, marble becomes altered with an increase in calcite veins and veinlets with random orientation.									12705	101	102	38.8	
			23.5-23.9m, soft beige talc/clay veins can be seen over a 1cm wide with increased calcite alteration.									12707	102	103	71.2	
			24.35m, 40cm argillite dyke with py up to 25% in blebs and disseminated throughout. Dyke ends with 5-10cm of talc.									12708	103	104	82.8	
			25.71m, 32cm dyke intruding marble, dyke starts with 7cm of soft beige clay/talc which is in sharp contact with 22cm of soft green talc. Dyke also contains pieces of marble inclusions.									12709	104	105	62.6	
26.4-28.30m, small fault with broken and rubby marble as well as argillite rubble.									12710	105	106.2	76.4				
110		Dt	46.1m, 40cm dyke of altered diorite?, groundmass is reddish brown silicified with hb and some calcite phenos, py cubic and disseminated throughout up to 5%, poss apy as well.		10	0	0	0	0	0						
			51.2-52.1m, dyke material, poss altered diorite? Grey silicious goundmass with reddish brown, hb lathes and rhodonite is also present at dyke contact (52.1m). Py and poss apy present up to 2% along fracture planes as well as chlorite/clay gouge.													
			52.75m, 25cm dyke, same material as above with an increase in py up to 15% as blebs along fracture planes.		1	0	0	0	0	0						
			53.6m, 30cm dyke, same material as above, py 5% as blebs along fracture planes.													
			55.35, 10cm dyke of soft grey/brown clay/talc with calcite phenos, py up to 10% as blebs throughout.													
115		Mt	59.35m, 20cm of coarse grained marble with inclusions of dark grey finer grained marble and poss hem 2% along discontinuous veins.													
			60.24m, 60cm of altered marble with emerald green mineral poss chlorite? Pyr 1% (60.6m) locally along calcite vein.	30									12711	113.9	115	54.5
			77.64m, chlorite veining 1cm and greater, 50TCA										12712	115	116	76.5
			79.44-80.2m, diorite dyke, py cubic, disseminated throughout 1%										12713	116	117	74.7
			90.51m, 22cm of soft grey/beige clay/talc gouge.	50									12714	117	118	77.2
			94.1-96.2m Dyke, soft grey clay with talc. Calcite veinlets and chlorite along fracture planes. Areas of dyke are pulverized.													
120	FLTG	Mt	98.77m band of Mt and green talc with chlorite and clay gouge along fracture plane.													
			Massive Mt with calcite and chlorite alteration and mm veins as well as veinlets.	70												
			100.45-102m, faulted dyke, broken and pulverized talc mixed with broken Mt ending with 10cm of gouge.										12715	118	123.5	75.2
125		Dt	106m Vein of Pv or poss anv locally up to 10%.													
			Diorite dyke, light grey groundmass with biotite phenos? And chlorite. Py, cubic and disseminated throughout up to 1%.													
			58cm of marble with Mt inclusions, gradually grading into impure Mt with calcite alteration and veinlets. Green epidote? as well as chlorite along fracture planes.	75												
			118.16m-125.5m Fault, pulverized and rubby Mt with epidote throughout. Fault ends with 26cm of gouge.								12716	123.5	125.3	83.1		
			Diorite, light grey groundmass with biotite and calcite phenos. Py throughout in blebs up to 15%. Core is broken.		15	0	0	0	0	0						
			135.7m, 7 cm of Mt gouge													

Scale 1:200

08/16/11

17:12:56

Hole Name: RD11-03

REDFORD IRON ORE PROJECT

Hole Length: 195.70

Segment Start Depth: 126.04

Segment End Depth: 155.07

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
130		Dt	Diorite, light grey groundmass with biotite and calcite phenos. Py throughout in blebs up to 15%. Core is broken. 135.7m, 7 cm of Mt gouge		15	0	0	0	0	0				
135			Contact gougy and broken, likely faulted, diopside skarn, heavily chloritized within fractures and slightly calcareous; retrograde? 139.73-141.44, Band of massive magnetite with minor pyroxene skarn inclusion at 141.0m rimmed with chlorite, Po and Py Minor calcite veins throughout Visible flow banding between 143.3 and 144.3; 15cm of massive Py at 143.46 and 20cm of massive hematite at 143.61m Unit ends in another gougy contact fault.											
140	CTCF FLTG	Sk	Massive marble, as above 148.9-149.8, Small heavily altered magnetite dyke, sharp fluidic contacts, heavily chloritized with marble inclusions within (up to 8cm) Hematite staining along fractures locally @ 150-152m	80	8	4	0	0	0	0	12717	139.68	141.44	53.5
145	CTCF				7	0	0	0	0	0	12718	143	144	13.1
	FLTG	Mb	Massive magnetite, moderate calcite veins and veinlets throughout; also minor epidote veinlets; some graphite Diopside skarn dykes @ 153.45-154.55 and 155.2-156.12 with moderate epidote veinlets and chloritization; non-magnetic; both bounded by faults Local Py stringers at 158.4 (up to 5%) 159-160, heavy calcite veining locally up to 1cm thick 165.3-167.8, light blue veins of ###	80	0	0	0	0	0	3	12719	144	145	2
150	FLTG										12720	148.8	149.9	26.2
	FLTG	Mt		90							12721	152	153	0.1
	FLTG										12722	153	154	5.2
155											12723	154	155	56.9
											12724	155	156	24.5

Scale 1:200

08/16/11

17:12:56

Hole Name: RD11-03

REDFORD IRON ORE PROJECT

Hole Length: 195.70

Segment Start Depth: 155.07

Segment End Depth: 184.09

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
	FLT	Mt	Massive magnetite, moderate calcite veins and veinlets throughout; also minor epidote veinlets; some graphite Diopside skarn dykes @ 153.45-154.55 and 155.2-156.12 with moderate epidote veinlets and chloritization; non-magnetic; both bounded by faults Local Py stringers at 158.4 (up to 5%) 159-160, heavy calcite veining locally up to 1cm thick 165.3-167.8, light blue veins of ###	90	5	0	0	0	0	0	12724	155	156	24.5
	FLT										12725	156	157	69
											12727	157	158	69.3
											12728	158	159	74.7
160											12729	159	160	77.1
	FLTG										12730	160	161	76.2
											12731	161	162	83.3
											12732	162	163	89
165											12733	163	164	82
											12734	164	165	90.2
		12735	165	166	80.7									
		12736	166	167	85.7									
		12737	167	168	87.8									
		12738	168	169	87.1									
170		Sk	Predominantly diopside skarn with moderate calcite veins throughout 171.23-177.4, diopside dominant skarn, clinozoisite phenos, 20% with light grey-green groundmass 175.0-175.6, band of massive magnetite 176.6-178.6, mottled magnetite and skarn, 50% 178.6-180.5, garnet dominant skarn, minor epidote and diopside	95	3	0	0	0	0	0	12739	169	170	92.7
	CTCF										12740	170	171	82.3
											12741	171	172	11.5
											12742	172	173	0.4
175		Dt	Plagioclase-pheric diorite porphyry, with up to 5mm plag lathes, 15-20% in clusters, with lesser hornblende lathes (5-10%) and medium grey groundmass. Significant epidote and marcasite mineralization along fracutre planes with minor chloritization 186.2-187.1, skarn intrusion with quartz and garnet dominant and lesser pyroxene, approx 50 deg TCA 190.5-191.18, skarn intrusion with dominant quartz and pyroxen 190.3-190.67, skarn intrusion, as above 192.9-193.5, skarn intrusion, as above	49										
											12743	175	176	35.1
											12744	176.6	177.6	15.2
180											12745	177.6	178.6	10.5

Scale 1:200

08/16/11

17:12:56

Hole Name: RD11-02														
REDFORD IRON ORE PROJECT										Hole Length: 145.40				
Segment Start Depth: 3.50										Segment End Depth: 47.04				
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
5		OB			1	0	0	0	0	0				
10														
15														
20			Grey/white fine grained marble with up to 1% disseminated py throughout. Calcite vienlets at random orientation and veins up to and greater then 1cm. Core is broken with areas of rumble.											
25		Mb	28.41m, 30cm band of soft green talc with calcite veinlets and iron staining. 42m, 60cm of iron stained talc along fracture plains and viens within broken core. 46.68-62m, core becomes very vuggy along fracture planes and veinlets with increase in calcite and iron staining along fracture planes.											
30			54.70m, 25cm of dyke material, grey/brown groundmass with calcite inclusions. Py up to 5%, cubic and disseminated.											
35			64.45m, 12cm band of Mt alteration within the marble with hematite up to 5%. Py up to 20%, cubic in veinlets and blebs. Calcite veins/veinlets at random are also present											
40			66.58- 67.33m, dyke materal same as above.											
45			67.53m, 20cm band of Mt with calcite veinlets and py up to 5% disseminated throughout and in veinlets. 69.21-71m, blebs and mm veins of Mt in the marble as well as increase of py to 5% as blebs and along veinlets.											
Scale 1:300			08/16/11					17:14:19						

Hole Name: RD11-02

REDFORD IRON ORE PROJECT

Hole Length: 145.40

Segment Start Depth: 47.04

Segment End Depth: 90.57

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct			
50		Mb	<p>Grey/white fine grained marble with up to 1% disseminated py throughout. Calcite vienlets at random orientation and veins up to and greater then 1cm. Core is broken with areas of rumble.</p> <p>28.41m, 30cm band of soft green talc with calcite veinlets and iron staining.</p> <p>42m, 60cm of iron stained talc along fracture plains and viens within broken core.</p> <p>46.68-62m, core becomes very vuggy along fracture planes and veinlets with increase in calcite and iron staining along fracture planes.</p> <p>54.70m, 25cm of dyke material, grey/brown groundmass with calcite inclusions. Py up to 5%, cubic and disseminated.</p> <p>64.45m, 12cm band of Mt alteration within the marble with hematite up to 5%. Py up to 20%, cubic in veinlets and blebs. Calcite veins/veinlets at random are also present</p> <p>66.58- 67.33m, dyke materal same as above.</p> <p>67.53m, 20cm band of Mt with calcite veinlets and py up to 5% disseminated throughout and in veinlets.</p> <p>69.21-71m, blebs and mm veins of Mt in the marble as well as increase of py to 5% as blebs and along veinlets.</p>														
55				5	0	0	0	0	0	0							
60																	
65						20	0	0	0	0	0	5	12751	64.25	64.75	8.4	
						5	0	0	0	0	0	0					
						5	0	0	0	0	0	0					
70				5	0	0	0	0	0	0							
75		Mt	<p>Massive Mt with some calcite veins and veinlets gets more impure downhole becoming mottled with white alteration mineral, possibly chlorite or actinolite.</p> <p>87-103.9m, Fault, core becomes very broken with areas of rubble and pulverization. Soft green talc is present along fracture planes and in rumble throughout.</p> <p>103m, Fault ends with 65cm of soft gouge made up of Mt, chlorite and clay.</p> <p>110.1-113m, Unit ends in gouge same as above.</p>	90							12752	74.8	75.3	0.3			
														12753	75.3	77	73.6
														12754	77	78	80.6
														12755	78	79	80.5
														12757	79	80	83.1
														12758	80	81	82.8
														12759	81	82	80.8
														12768	82	83	82.2
														12760	83	84	84.3
														12761	84	85	82.5
														12762	85	86	81
														12763	86	87	83.4
														12764	87	88	81.6
														12765	88	89	79.2
											12766	89	90	74.9			
90	FLT										12767	90	91	86			

Scale 1:300

08/16/11

17:14:19



Hole Name: RD11-02

REDFORD IRON ORE PROJECT

Hole Length: 145.40

Segment Start Depth: 90.57

Segment End Depth: 134.11

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct				
-95	FLT	Mt	<p>Massive Mt with some calcite veins and veinlets gets more impure downhole becoming mottled with white alteration mineral, possibly chlorite or actinolite.</p> <p>87-103.9m, Fault, core becomes very broken with areas of rubble and pulverization. Soft green talc is present along fracture planes and in rumble throughout.</p> <p>103m, Fault ends with 65cm of soft gouge made up of Mt, chlorite and clay.</p> <p>110.1-113m, Unit ends in gouge same as above.</p>	90								12767	90	91	86			
														12769	91	92	87.8	
															12770	92	93	85.1
															12771	93	94	78.9
															12772	94	95	79
															12773	95	96	79.8
															12774	96	97	75.5
															12775	97	98	81.5
															12777	98	99	86.6
															12778	99	100	85.6
															12779	100	101	84.3
															12780	101	102	71.7
					-100			<p>Diorite dyke, groundmass is grey/green with calcite and hb phenos. Py is disseminated throughout as well as in veinlets and along fracture planes, 2% throughout and up to 5% along fracture planes.</p> <p>114.9m, 40cm area of core with hem, py and poss galena disseminated throughout, 2% py, 1% hem, 1% galena.</p> <p>116.30m, unit ends with band of chlorite vein 6 cms wide as well as calcite veinlets and py is present, cubic, up to 10% along veinlets and disseminated.</p>									12781	102
														12782	103	104	55.1	
															12783	104	105	85.7
															12784	105	106	83.5
															12785	106	107	84.4
															12786	107	108	85.8
															12787	108	109	80.9
															12788	109	110	77.1
															12789	110	111	23.7
															12790	111	112	74.1
-110												12791	112	113	8.2			
														12792	113	114	1	
-115		Dt	<p>116.45-120.2m, Area of altered skarn. Texture is mottled (like rhino skin), groundmass is greenish with dark brown oolitic appearance most likely altered garnet or possible ilmenite. Calcite veinlets are rare. Mt is present as blebs at the 116.8m mark.</p> <p>118.9m, 24cm band of Mt or massive pyr? With calcite veins. Magnetitic but has purplish tinge indicating possible pyr.</p>		1	0	0	0	0	0								
					2	0	0	0	0	0	1							
					10	0	0	0	0	0								
					5													
					75													
-120		Sk	<p>119.5-120.17m, band of Mt with calcite and epidote veining. Hem is also present along veins up to 2%.</p> <p>120.17m and onwards, diopside dominated skarn with garnet up to 40% decreasing downhole to 20% and rare calcite veins throughout.</p> <p>122.5m, 20cm intrusion of Mt with up 10% py along veinlets and in blebs.</p> <p>124.4-127.1m, Mt is present as blebs throughout core and py up to 2% along fracture planes, cubic, disseminated.</p>		70	0	0	0	0	0	2	12793	119	120.2	33.4			
					80													
					15													
-125												12701	122.3	122.8	19.7			
-130	FLT	And	<p>Faulted andesite, light to dark green with calcite veins. Py is present up to 5% as blebs and along some veins.</p> <p>133.56m, small band (4cm) of Mt and pyr (2%) along veins and as blebs.</p> <p>Core is broken and pulverized in some areas.</p>		5	0	0	0	0	0								
					0	2	0	0	0	0								

Scale 1:300

08/16/11

17:14:19

Hole Name: RD11-02

REDFORD IRON ORE PROJECT

Hole Length: 145.40

Segment Start Depth: 134.11

Segment End Depth: 177.64

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
	FLT	And			5	0	0	0	0	0	12794	134.9	136	45.5
	CLC										12795	136	137	58.9
	FLT	Mt	Faulted andesite, light to dark green with calcite veins. Py is present up to 5% as blebs and along some veins. 133.56m, small band (4cm) of Mt and pyr (2%) along veins and as blebs. Core is broken and pulverized in some areas.	90							12797	137	138	75.8
-140											12798	138	139	72.4
											12799	139	140	64.1
											12800	140	141	79.1
-145		Dt	Faulted contact with massive Mt mottled with calcite veinlets and white alteration. Core is broken and pulverized, fault ends at 139.6 with 10cm of gouge. 138.4m to end of unit, Mt has epidote veining along fracture planes.		1	0	0	0	0	0				
-150														
-155			Diorite, grey groundmass with hb phenos, py is present in trace amounts increasing to 5% along fracture planes and at contact with Mt. Chlorite is also present along fracture plans. EOH.											
-160														
-165														
-170														
-175														

Scale 1:300

08/16/11

17:14:19

Hole Name: RD11-01

REDFORD IRON ORE PROJECT

Hole Length: 170.73

Segment Start Depth: 0.00

Segment End Depth: 43.54

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
		OB	rubble from 4.14 to 4.57m											
5	FLTG	Mb	<p>Light grey to white marble with minor calcite veinlets and py along fracture viens. Core is highly fractured with some areas of rubble as well as fault zones. Minor gypsum along some fractures</p> <p>21.26, 2cm band of chloritized and primarily clay alteration with associated disseminated cubic Py (5%)                      44.21, local iron staining (translucent brown) along fault                      49.5-51.5, Emerald diopside? Mineralization along fractures with assoc. Trace Py (cubic)                      56.3-56.7, Garnet Skarn intrusion (50% Gt, 25% Di, 2% Ep)                      60-61, iron staining and chloritization on fracture surfaces                      71-72.7, more iron staining</p>											
10	FLT			1	0	0	0	0	0	0				
15	FLT													
20	FLTG													
25	BC													
25	55 FLT													
30														
35														
40														
						1	0	0	0	0	0			

Scale 1:300

08/16/11

17:14:44

Hole Name: RD11-01

REDFORD IRON ORE PROJECT

Hole Length: 170.73

Segment Start Depth: 43.54

Segment End Depth: 87.07

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct	
45	FLTG	Mb	Light grey to white marble with minor calcite veinlets and py along fracture viens. Core is highly fractured with some areas of rubble as well as fault zones. Minor gypsum along some fractures												
50	BC		21.26, 2cm band of chloritized and primarily clay alteration with associated disseminated cubic Py (5%) 44.21, local iron staining (translucent brown) along fault 49.5-51.5, Emerald diopside? Mineralization along fractures with assoc. Trace Py (cubic) 56.3-56.7, Garnet Skarn intrusion (50% Gt, 25% Di, 2% Ep) 60-61, iron staining and chloritization on fracture surfaces 71-72.7, more iron staining	1	0	0	0	0	0	0					
55	FLTG														
60	FLTG														
65	BC		Altered diorite dyke. Broken, faulted contact with marble (72.7-73m). Up to 2mm dessicated hornblende lathes, (10%); 1mm plagioclase phenocrysts (5%); calcite replacement of phenos up to 10%; green-grey groundmass shows low-grade alteration levels; chlorite, sericite and some talc along fracture planes with further chlorite in 1cm band at contact with downhole magnetite unit. Flame-like fluidic structures at contact appear to indicate that diorite pre-dates magnetite (see attached reference photo).												
70															
75	40 CTCDYKE 50 CTCDYKE		Dt	Massive with medium veinlets of calcite and dendritic chlorite alteration within, which decreases downhole (10% and lower); minor sericite and serpentine associated with the veinlets; trace Py (up to 2% cubic, disseminated)	1	0	0	0	0	0	0	12601	74.04	75	66.4
80	FLTG		Mt	75.6, 1.6cm Ca vein with violet colouration	95							12602	75	76	71.4
85			Mb	Grey/white medium grained marble with ~1% py and chlorite veining along fracture planes with clay, talc, possibly sericite. 88.9 to 89.94, Mt intrusion with garnet and increase of chlorite/talc veining with up to 5% py along fracture planes. Also contains minor calcite veinlets. Veins and veinlets are at random orientation.		1	0	0	0	0	0	12603	76	77	77.8
												12604	77	78	1.5
											12605	78	79	70.25	
											12606	79	80	78.1	
											12607	80	81	75.4	
											12608	81	82	59.6	
											12609	82	83	71.3	
											12610	83	84	71.4	
											12611	84	85	73.7	
											12612	85	86	0.85	

Scale 1:300

08/16/11

17:14:44

Hole Name: RD11-01

REDFORD IRON ORE PROJECT

Hole Length: 170.73

Segment Start Depth: 87.07

Segment End Depth: 130.61

Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct
90		Mb			1	0	0	0	0	0	12613	89	90	22.4
		Mt	Grey/white medium grained marble with ~1% py and chlorite veining along fracture planes with clay, talc, possibly sericite.	90							12614	90	91	32.1
				90							12616	91	92	57.9
											12617	92	93	0
			88.9 to 89.94, Mt intrusion with garnet and increase of chlorite/talc veining with up to 5% py along fracture planes. Also contains minor calcite veinlets. Veins and veinlets are at random orientation.								12618	93	94	0.4
95		Mb									12619	94	95	0.2
											12620	95	96	0.3
											12621	96	97	0
											12622	97	98	0
											12623	98	99	0
											12624	99	100	0
100			Massive Mt with minor graphite and calcite veinlets at random orientation. Trace amounts of disseminated py throughout, cubic, up to 2% in some areas.		1	0	0	0	0	0	12625	100	101	0
											12626	101	102	0.1
											12627	102	103	0.1
			91.8m, 20cm episode skarn intrusion with an increase of py to 10% and minor cpy.								12628	103	104	41.3
105											12629	104	105	74.8
											12630	105	106	65.1
											12631	106	107	56.5
											12632	107	108	36.55
			Grey/white medium grained marble. Calcite veining up to 1 cm along fracture planes are mixed with clay, talc and possibly sericite? Trace py throughout.								12633	108	109	86.7
110											12634	109	110	61.7
											12636	110	111	79.9
											12637	111	112	76.1
											12638	112	113	80.1
											12639	113	114	82.3
115	FLT										12640	114	115	80.6
		Mt									12641	115	116	76.8
			Massive Mt with mottled light green alteration likely related to underlying skarn throughout, actinolite?. Chlorite veining with epidote along fracture planes.	90							12642	116	117	47.6
			106.54 to 122.90 fault zone, area of gouge up to 108m includes skarn intrusion, then pulverized massive mt with mottled white alteration (actinolite?).								12643	117	118	67.5
			125.7m traces of red mineral, poss hematite.								12644	118	119	79.8
120											12645	119	120	84.1
			128.82 to 131.90m fault zone with slickensides, broken and pulverized Mt								12646	120	121	80.4
	FLTG										12647	121	122	69.1
			131.6-131.8m, py up to 5% locally at end of fault zone.								12648	122	123	70.5
											12649	123	124	58.6
125											12650	124	125	66.1
					0	0	0	0	0	1	12651	125	126	68.3
											12652	126	127	64.4
											12653	127	128	55.2
											12654	128	129	73.5
130	FLT										12656	129	130	75
											12657	130	131	77.4

Scale 1:300

08/16/11

17:14:45

Hole Name: RD11-01

REDFORD IRON ORE PROJECT

Hole Length: 170.73

Segment Start Depth: 130.61

Segment End Depth: 174.14

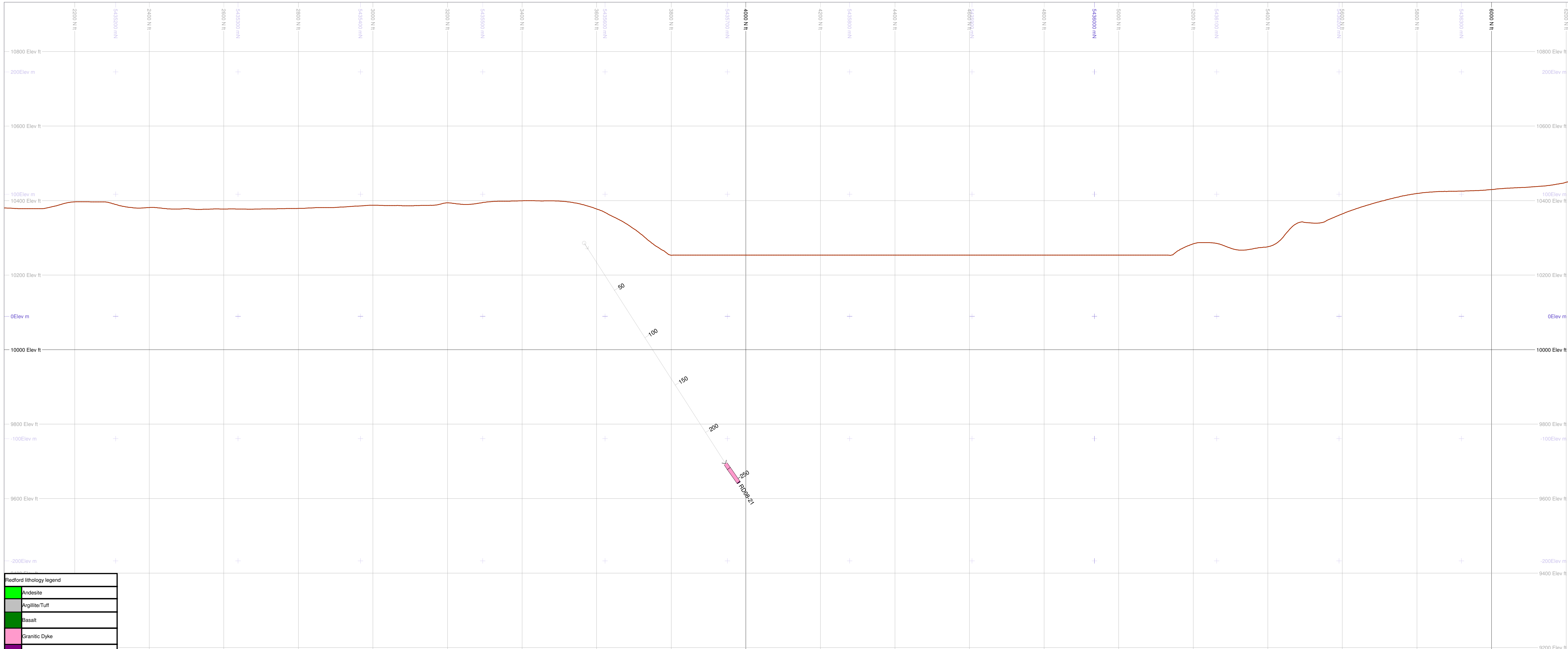
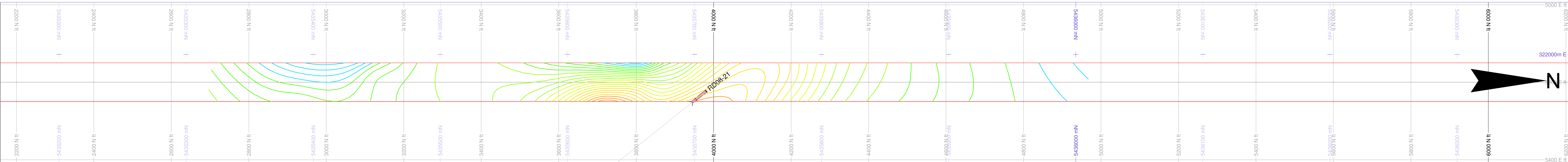
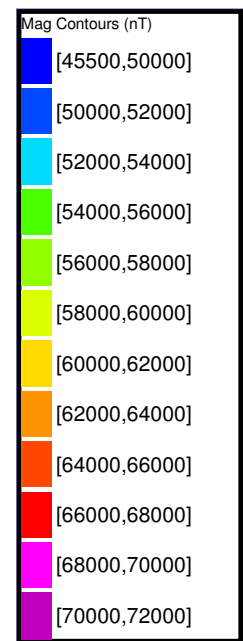
Depth At	Contacts Faults	RockCode	Description	mt%	py%	pyr%	cpy%	aspy%	mo%	hem%	Sample	From	To	Mag_pct		
	FLT-	Mt	<p>Massive Mt with mottled light green alteration likely related to underlying skarn throughout, actinolite?. Chlorite veining with epidote along fracture planes.                      106.54 to 122.90 fault zone, area of gouge up to 108m includes skarn intrusion, then pulverized massive mt with mottled white alteration (actinolite?).                      125.7m traces of red mineral, poss hematite.                      128.82 to 131.90m fault zone with slickensides, broken and pulverized Mt                      131.6-131.8m, py up to 5% locally at end of fault zone.</p>	90	5	0	0	0	0	0	12657	130	131	77.4		
					99							12658	131	132	77.4	
						0	2	0	0	0	0	12659	132	133	43.6	
135						0						12660	133	134	15.8	
												12661	134	135	0.2	
		Sk	<p>132.48 to 135.2m silicified bleached skarn alteration, minor garnet and py visible. Up to 2% pyr locally between 134 to 135m.                      133.20, 30cm band of Mt with skarn inclusions (10cm) bounded by gouge.                      Beyond 135.2 m grades into garnet skarn (70% garnet) and then light green pyroxene dominate skarn from 137m onwards, with 20% garnet. Epidote within fracture veins along with sericite, talc, chlorite and some clay. Texture ranges from flow banded to mottled.                      139.47m 4cm calcite vein.                      142m skarn becomes more silicified, at 143m Mt stringers and blebs begin to appear up to 5%.                      142-148m garnet increases to 20-40%.                      150-152m, possible gypsum with calcite along fracture planes.                      152-152.75m up to 15% epidote, 20% garnet, Mt increases to 10% with moderate chlorite alteration.                      152.75-153.3m Mt, broken core.                      154m to end of unit up to 10% pyr with trace associated cpy, ground mass moderately silicified, no visible garnet.                      Unit ends in 5cm of fault gouge.</p>	5												
145																
												12662	151	152	1	
												12663	152	153	13.5	
					75							12664	153	154	31	
						0	10	0	0	0	0	12665	154	155	13.5	
155												12666	155	156	74.8	
												12667	156	157	73.6	
												12668	157	158	76.1	
												12669	158	159	38	
160	FLT-	Mt	<p>Massive Mt, as above                      156-159.4m fault zone, broken to pulverized core with gouge along fractures.                      158m 15% mottled sericite and clay? alteration, appears silicified.                      158.3-158.8m band of dyke material, original texture obscured, appears dioritic with heavily altered mafic phenos up to 3mm and 10%, groundmass light green, hard.                      159.33m 10cm of dyke material as above.                      161.65m, 30cm band of dyke material as above.                      162.58m, Mt becomes impure, 50% of groundmass is infiltrated with intermediate volcanics? or actinolite, light green to grey.                      166.43m, up to 1cm offsets of denderitic intermediate volcanic material.</p>	80												
												12670	159	160	66.8	
												12671	160	161	83.2	
												12672	161	162	55.4	
												12673	162	163	62.9	
												12674	163	164	24.5	
165					50							12676	164	165	40.2	
												12677	165	166	41.9	
												12678	166	167	60.4	
												12679	167	168	42.5	
170	CTCF	Dt	<p>Contact is faulted with diopside and chlorite alteration within.                      Diorite, grey groundmass with dessicated hb phenos, 1-3mm and 12%, silicified? Up to 5% cubic py along fracture planes.                      EOH</p>		5	0	0	0	0	0						

Scale 1:300

08/16/11

17:14:45

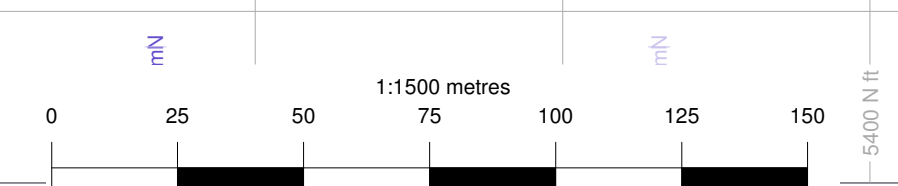
**Appendix E**  
**Cross Sections**




Redford lithology legend	
	Andesite
	Argillite/Tuff
	Basalt
	Granitic Dyke
	Diorite Dyke
	Fault
	Gabbro
	Lost Core
	Marble
	Magnetite
	No Log
	Overburden
	Semi-Massive Magnetite
	Skarn
	Tonalite
	Vein

Fe_pct	
	[0,10]
	[10,20]
	[20,30]
	[30,40]
	[40,50]
	[50,60]
	[60,70-1]





**RIDGEMONT**  
IRON ORE CORP

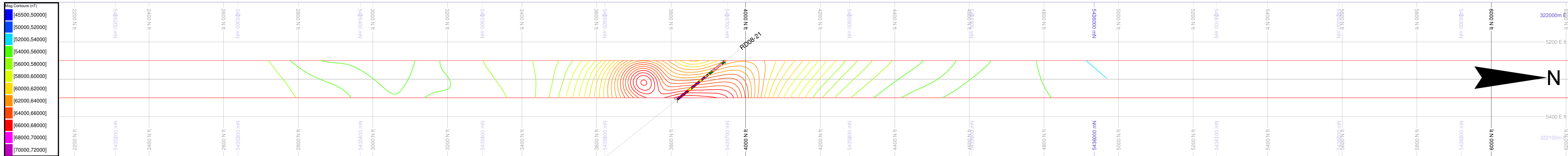
---

Brynnor Target Vertical Section 5200E

---

Section Number: 11	
Section Width: 30.48	Section Azimuth: 270
Scale 1:1500	Date: 22/03/12
Drawn by: AB	

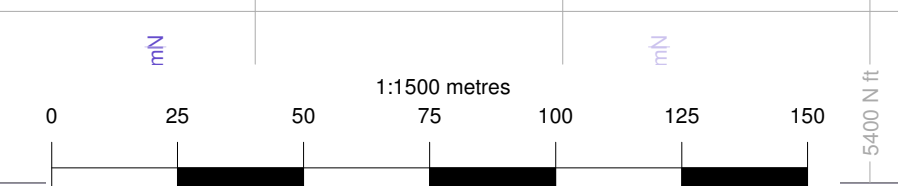





Redford lithology legend	
[Green]	Andesite
[Grey]	Argillite/Tuff
[Dark Green]	Basalt
[Pink]	Granitic Dyke
[Purple]	Diorite Dyke
[Black]	Fault
[Blue]	Gabbro
[White]	Lost Core
[Light Blue]	Marble
[Red]	Magnetite
[White]	No Log
[Dotted]	Overburden
[Orange]	Semi-Massive Magnetite
[Yellow]	Skarn
[Brown]	Tonalite
[Light Green]	Vein

Fe_pct	
[Blue]	[0,10]
[Light Blue]	[10,20]
[Green]	[20,30]
[Light Green]	[30,40]
[Yellow]	[40,50]
[Orange]	[50,60]
[Red]	[60,70-1]





**RIDGEMONT**  
IRON ORE CORP

---

Brynnor Target Vertical Section 5300E

---

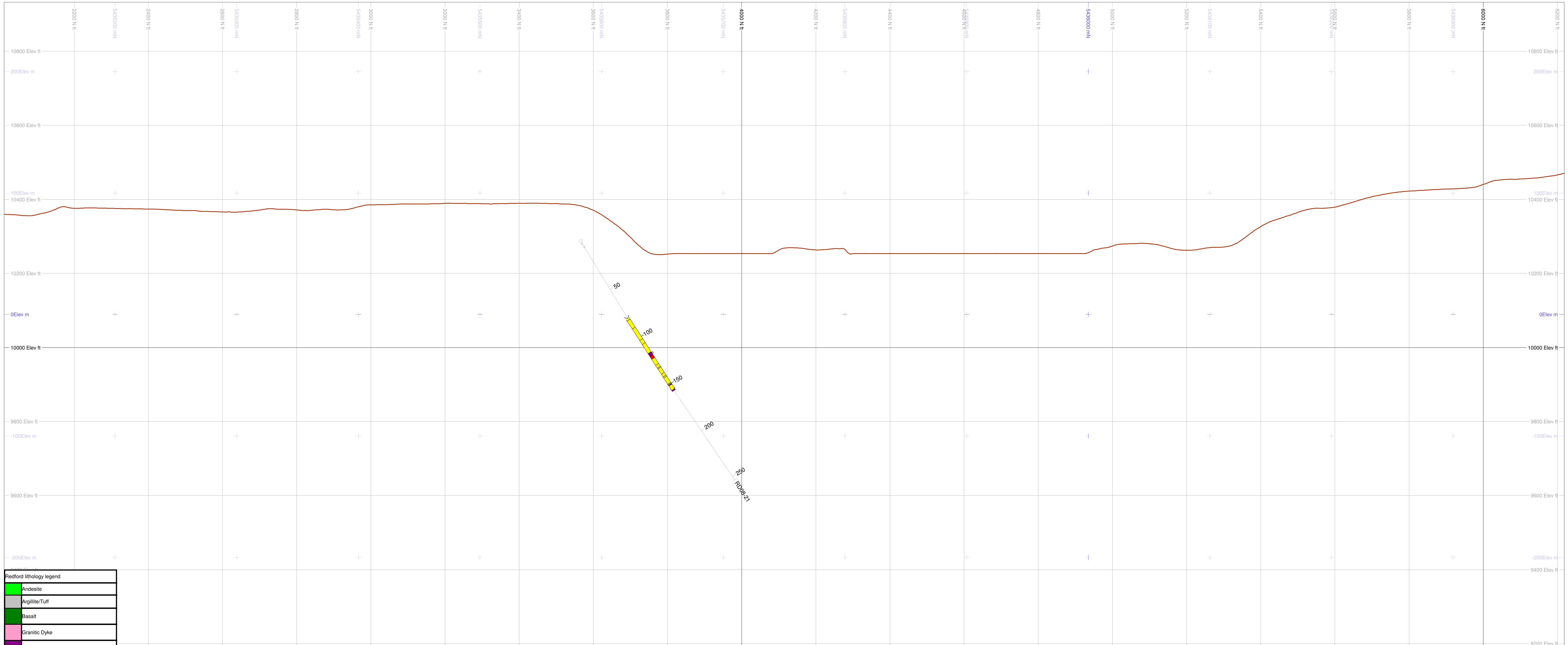
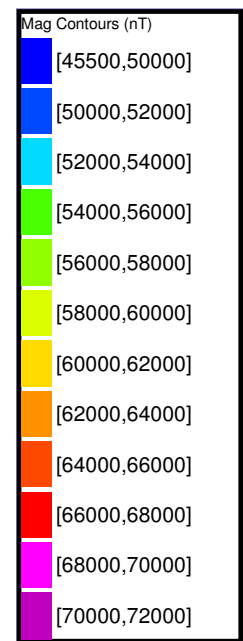
Section Number: 12

---

Section Width: 30.48	Section Azimuth: 270
----------------------	----------------------

---

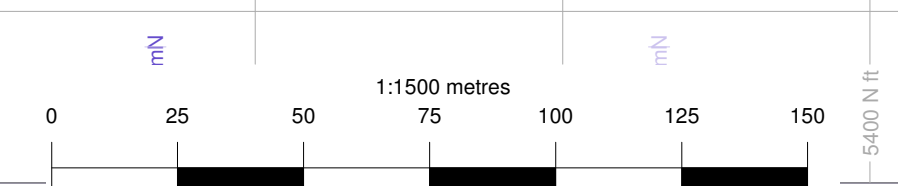
Scale 1:1500	Date: 22/03/12	Drawn by: AB
--------------	----------------	--------------




Redford lithology legend	
[Green]	Andesite
[Grey]	Argillite/Tuff
[Dark Green]	Basalt
[Pink]	Granitic Dyke
[Purple]	Diorite Dyke
[Black]	Fault
[Blue]	Gabbro
[White]	Lost Core
[Light Blue]	Marble
[Red]	Magnetite
[White]	No Log
[Dotted]	Overburden
[Orange]	Semi-Massive Magnetite
[Yellow]	Skarn
[Brown]	Tonalite
[Light Green]	Vein

Fe_pct	
[Blue]	[0,10]
[Light Blue]	[10,20]
[Green]	[20,30]
[Light Green]	[30,40]
[Yellow]	[40,50]
[Orange]	[50,60]
[Red]	[60,70-1]





**RIDGEMONT**  
IRON ORE CORP

---

Brynnor Target Vertical Section 5400E

---

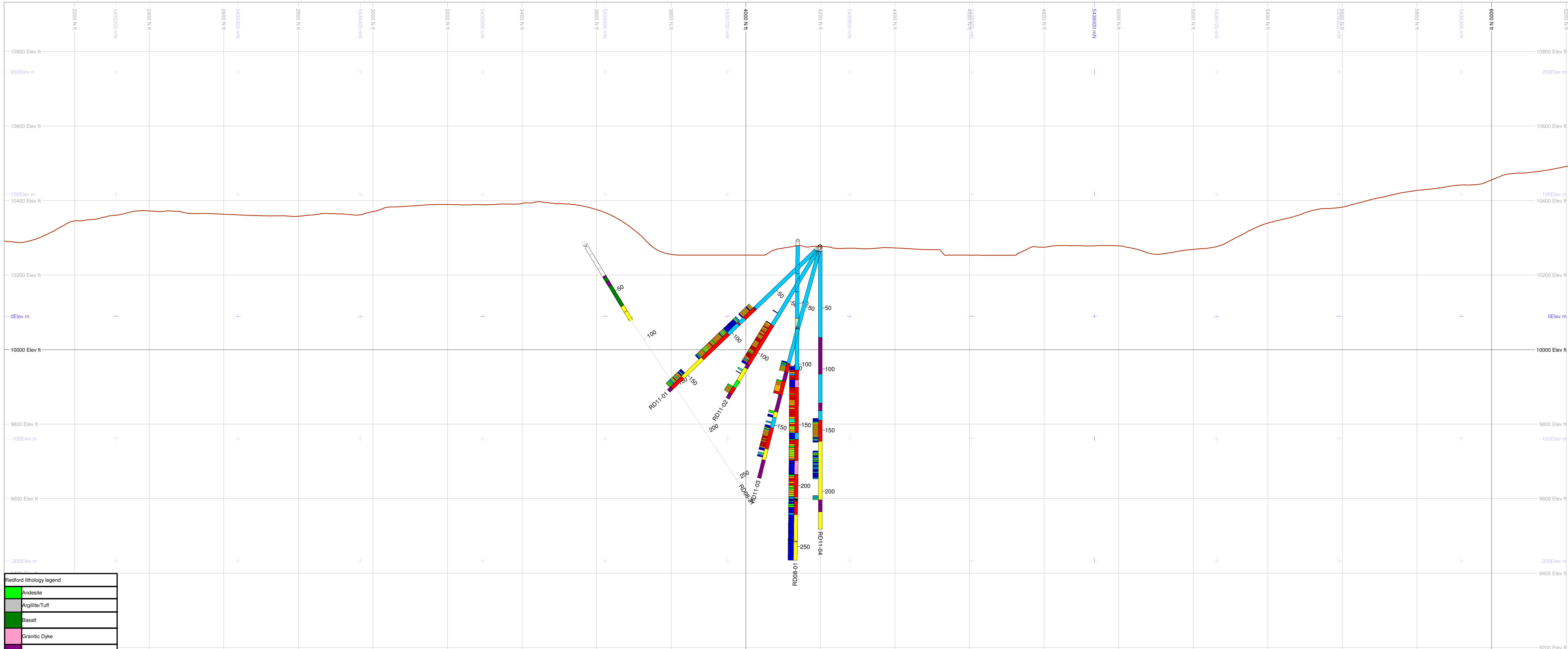
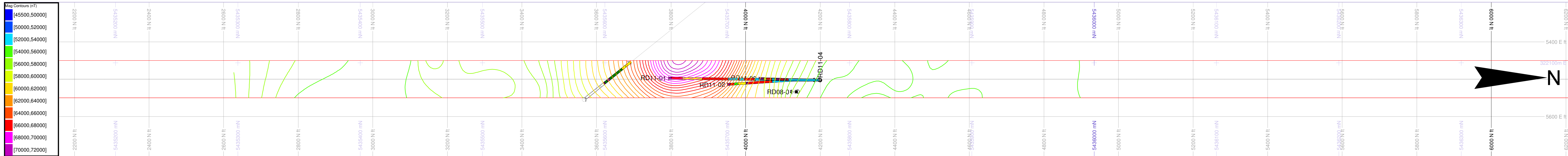
Section Number: 13

---

Section Width: 30.48	Section Azimuth: 270
----------------------	----------------------

---

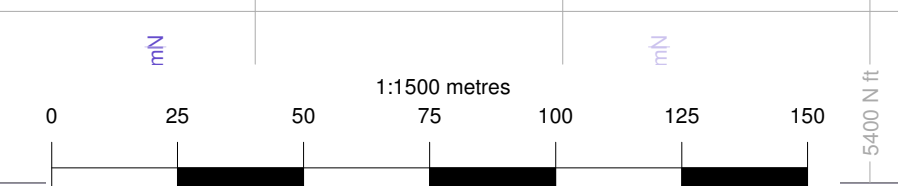
Scale 1:1500	Date: 22/03/12	Drawn by: AB
--------------	----------------	--------------




Reeford lithology legend	
[Green]	Andesite
[Light Grey]	Argillite/Tuff
[Dark Grey]	Basalt
[Pink]	Granitic Dyke
[Purple]	Diorite Dyke
[Black]	Fault
[Blue]	Gabbro
[White]	Lost Core
[Light Blue]	Marble
[Red]	Magnetite
[White]	No Log
[Dotted]	Overburden
[Orange]	Semi-Massive Magnetite
[Yellow]	Skarn
[Brown]	Tonalite
[Light Green]	Vein

Fe_pct	
[Blue]	[0,10]
[Light Blue]	[10,20]
[Green]	[20,30]
[Light Green]	[30,40]
[Yellow]	[40,50]
[Orange]	[50,60]
[Red]	[60,70-1]





**RIDGEMONT**  
IRON ORE CORP

---

Brynnor Target Vertical Section 5500E

---

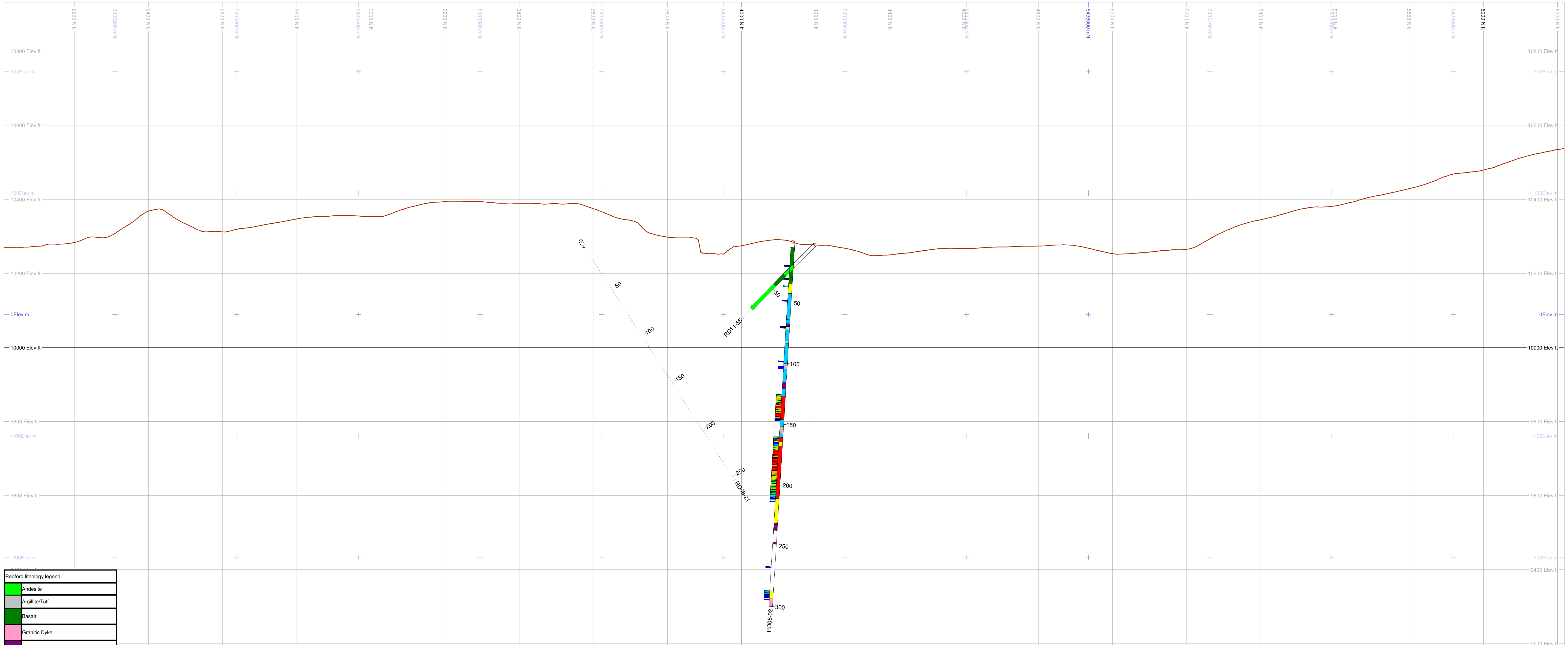
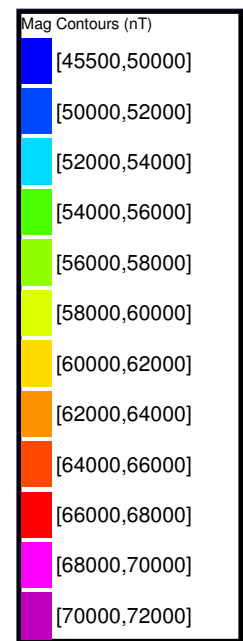
Section Number: 14

---

Section Width: 30.48	Section Azimuth: 270
----------------------	----------------------

---

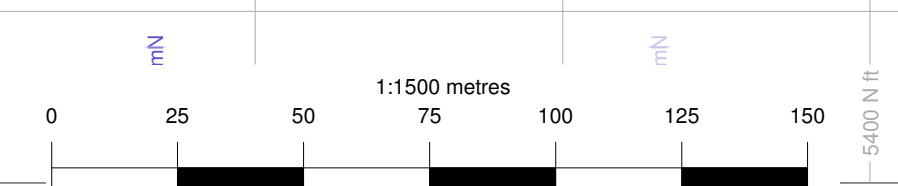
Scale 1:1500	Date: 22/03/12	Drawn by: AB
--------------	----------------	--------------




Redford lithology legend	
[Green]	Andesite
[Grey]	Argillite/Tuff
[Dark Green]	Basalt
[Pink]	Granitic Dyke
[Purple]	Diorite Dyke
[Black]	Fault
[Blue]	Gabbro
[White]	Lost Core
[Light Blue]	Marble
[Red]	Magnetite
[White]	No Log
[Dotted]	Overburden
[Orange]	Semi-Massive Magnetite
[Yellow]	Skarn
[Brown]	Tonalite
[Light Green]	Vein

Fe_pct	
[Blue]	[0,10]
[Light Blue]	[10,20]
[Light Green]	[20,30]
[Green]	[30,40]
[Yellow-Green]	[40,50]
[Yellow]	[50,60]
[Orange]	[60,70]
[Red]	[70,100]





**RIDGEMONT**  
IRON ORE CORP

---

Brynnor Target Vertical Section 5600E

---

Section Number: 15

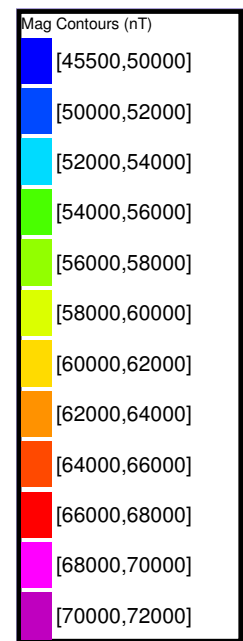
---

Section Width: 30.48	Section Azimuth: 270
----------------------	----------------------

---

Scale 1:1500	Date: 22/03/12	Drawn by: AB
--------------	----------------	--------------

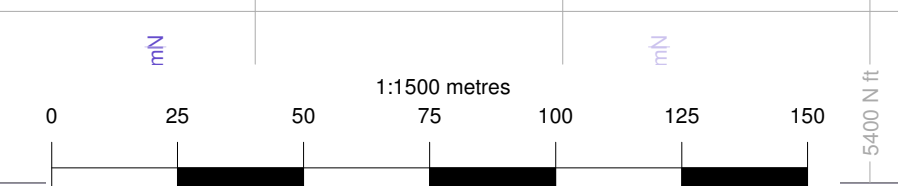





Redford lithology legend	
[Green]	Andesite
[Grey]	Argillite/Tuff
[Dark Green]	Basalt
[Pink]	Granitic Dyke
[Purple]	Diorite Dyke
[Black/White]	Fault
[Blue]	Gabbro
[White]	Lost Core
[Light Blue]	Marble
[Red]	Magnetite
[White]	No Log
[Dotted]	Overburden
[Orange]	Semi-Massive Magnetite
[Yellow]	Skarn
[Brown]	Tonalite
[Light Green]	Vein

Fe <sub>2</sub> O <sub>3</sub> pct	
[Blue]	[0,10]
[Light Blue]	[10,20]
[Green]	[20,30]
[Light Green]	[30,40]
[Yellow-Green]	[40,50]
[Yellow]	[50,60]
[Red-Orange]	[60,70-1]





## RIDGEMONT

IRON ORE CORP

---

Brynnor Target Vertical Section 5700E

---

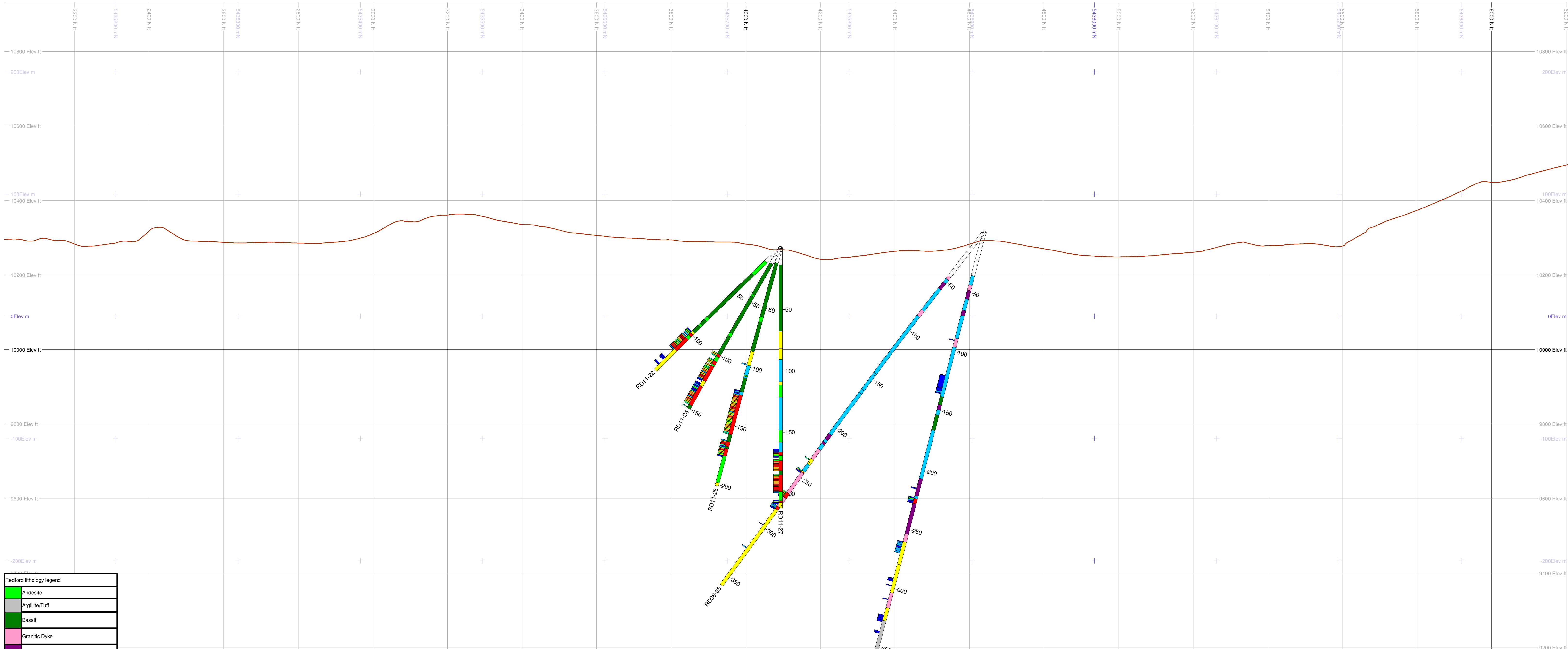
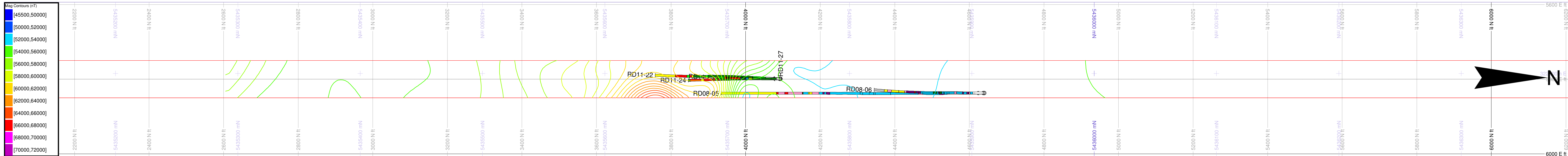
Section Number: 16

---

Section Width: 30.48	Section Azimuth: 270
----------------------	----------------------

---

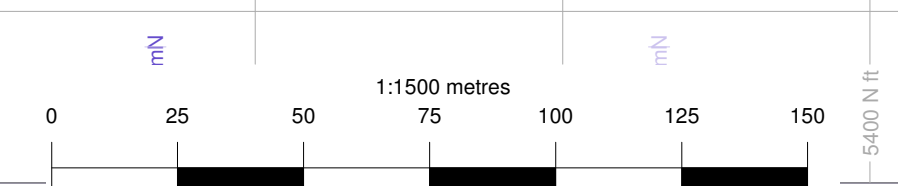
Scale 1:1500	Date: 22/03/12	Drawn by: AB
--------------	----------------	--------------




Reeford lithology legend	
[Green]	Andesite
[Light Green]	Argillite/Tuff
[Dark Green]	Basalt
[Pink]	Granitic Dyke
[Purple]	Diorite Dyke
[Black/White]	Fault
[Blue]	Gabbro
[White]	Lost Core
[Light Blue]	Marble
[Red]	Magnetite
[White]	No Log
[Grey]	Overburden
[Orange]	Semi-Massive Magnetite
[Yellow]	Skarn
[Brown]	Tonalite
[Light Green]	Vein

Fe <sub>pct</sub>	
[Blue]	[0,10]
[Light Blue]	[10,20]
[Light Green]	[20,30]
[Green]	[30,40]
[Yellow-Green]	[40,50]
[Yellow]	[50,60]
[Orange]	[60,70]
[Red]	[70,100]





**RIDGEMONT**  
IRON ORE CORP

---

Brynnor Target Vertical Section 5800E

---

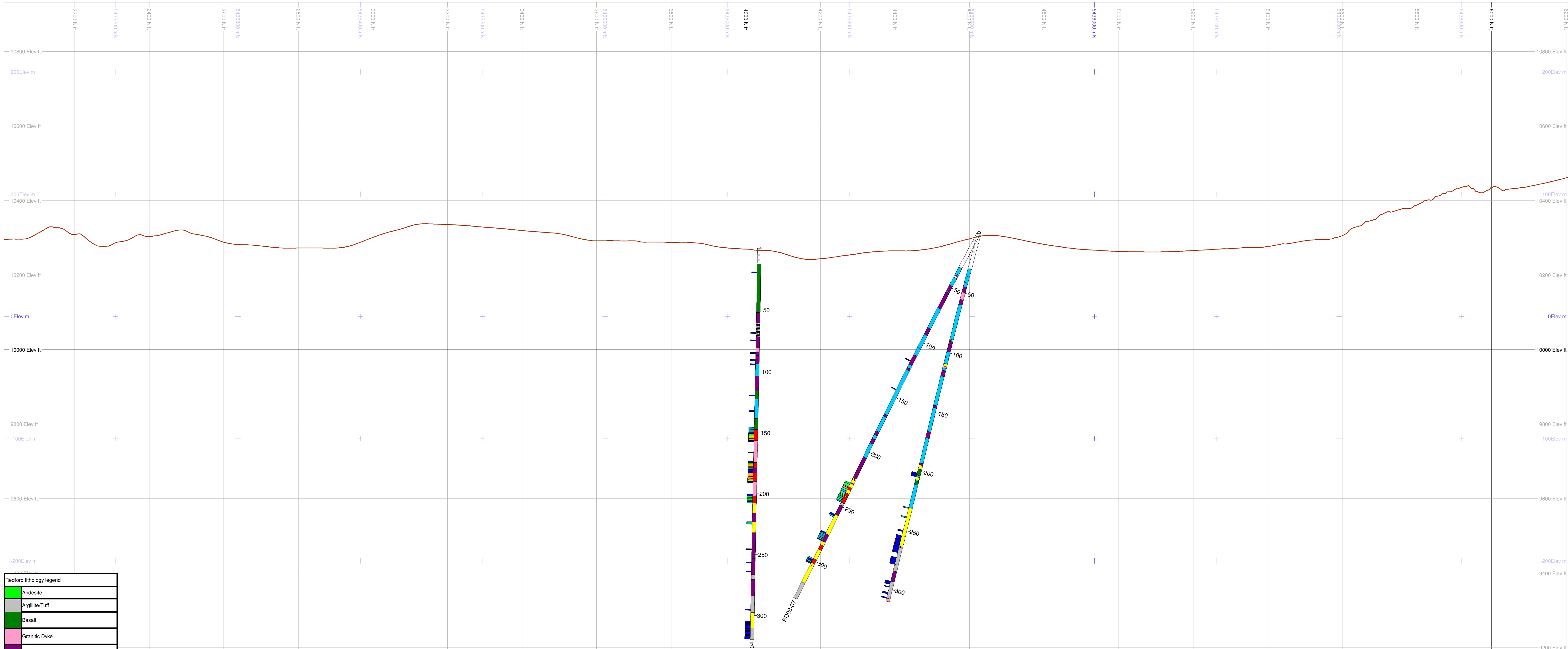
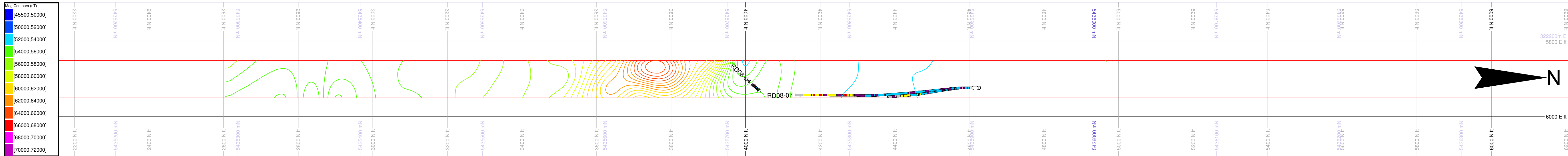
Section Number: 17

---

Section Width: 30.48	Section Azimuth: 270
----------------------	----------------------

---


Scale 1:1500	Date: 22/03/12	Drawn by: AB
--------------	----------------	--------------



Redford lithology legend	
[Green]	Andesite
[Light Green]	Argillite/Tuff
[Dark Green]	Basalt
[Pink]	Granitic Dyke
[Purple]	Diorite Dyke
[Black/White]	Fault
[Blue]	Gabbro
[White]	Lost Core
[Light Blue]	Marble
[Red]	Magnetite
[White]	No Log
[Dotted]	Overburden
[Orange]	Semi-Massive Magnetite
[Yellow]	Skarn
[Brown]	Tonalite
[Light Green]	Vein

Fe_pct	
[Blue]	[0,10]
[Light Blue]	[10,20]
[Green]	[20,30]
[Light Green]	[30,40]
[Yellow]	[40,50]
[Orange]	[50,60]
[Red]	[60,70-1]



**RIDGEMONT**  
IRON ORE CORP

---

Brynnor Target Vertical Section 5900E

---

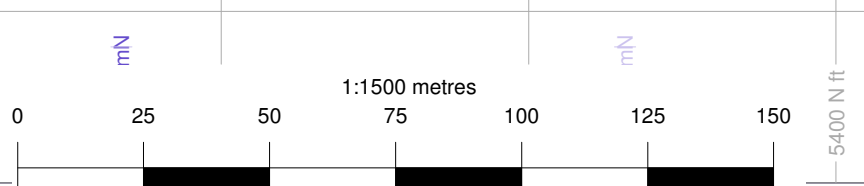
Section Number: 18

---

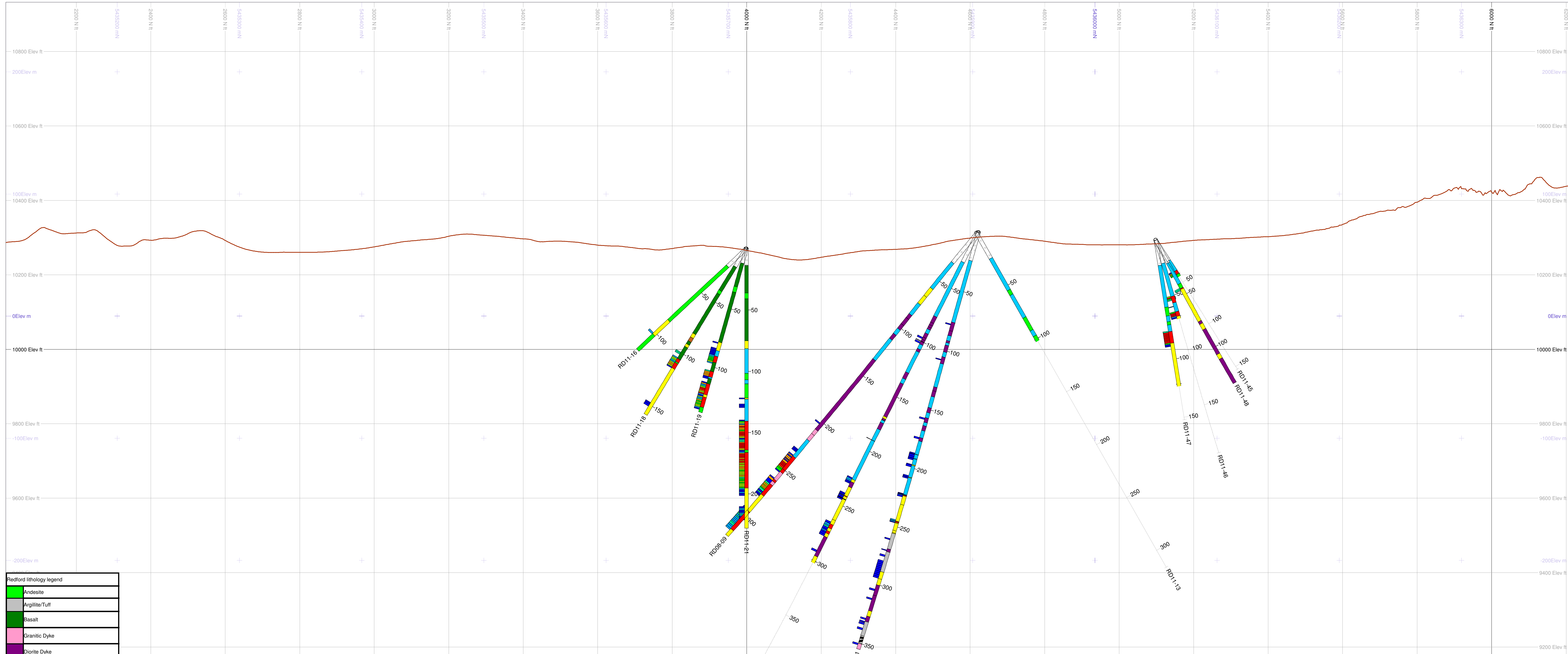
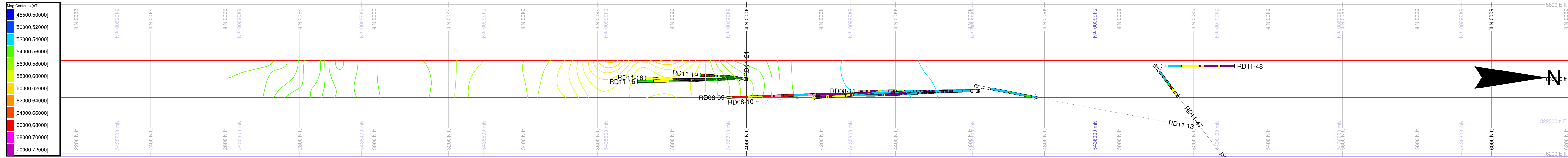
Section Width: 30.48	Section Azimuth: 270
----------------------	----------------------

---

Scale 1:1500	Date: 22/03/12	Drawn by: AB
--------------	----------------	--------------



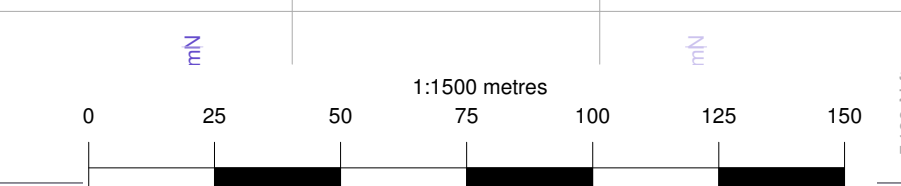





Reeford lithology legend	
[Green]	Andesite
[Light Green]	Argillite/Tuff
[Dark Green]	Basalt
[Pink]	Granitic Dyke
[Purple]	Diorite Dyke
[Black with white dashes]	Fault
[Blue]	Gabbro
[White]	Lost Core
[Light Blue]	Marble
[Red]	Magnetite
[White]	No Log
[Grey with dots]	Overburden
[Orange]	Semi-Massive Magnetite
[Yellow]	Skarn
[Brown]	Tonalite
[Light Green]	Vein

Fe_pct	
[Blue]	[0,10]
[Light Blue]	[10,20]
[Green]	[20,30]
[Light Green]	[30,40]
[Yellow]	[40,50]
[Orange]	[50,60]
[Red]	[60,70-1]



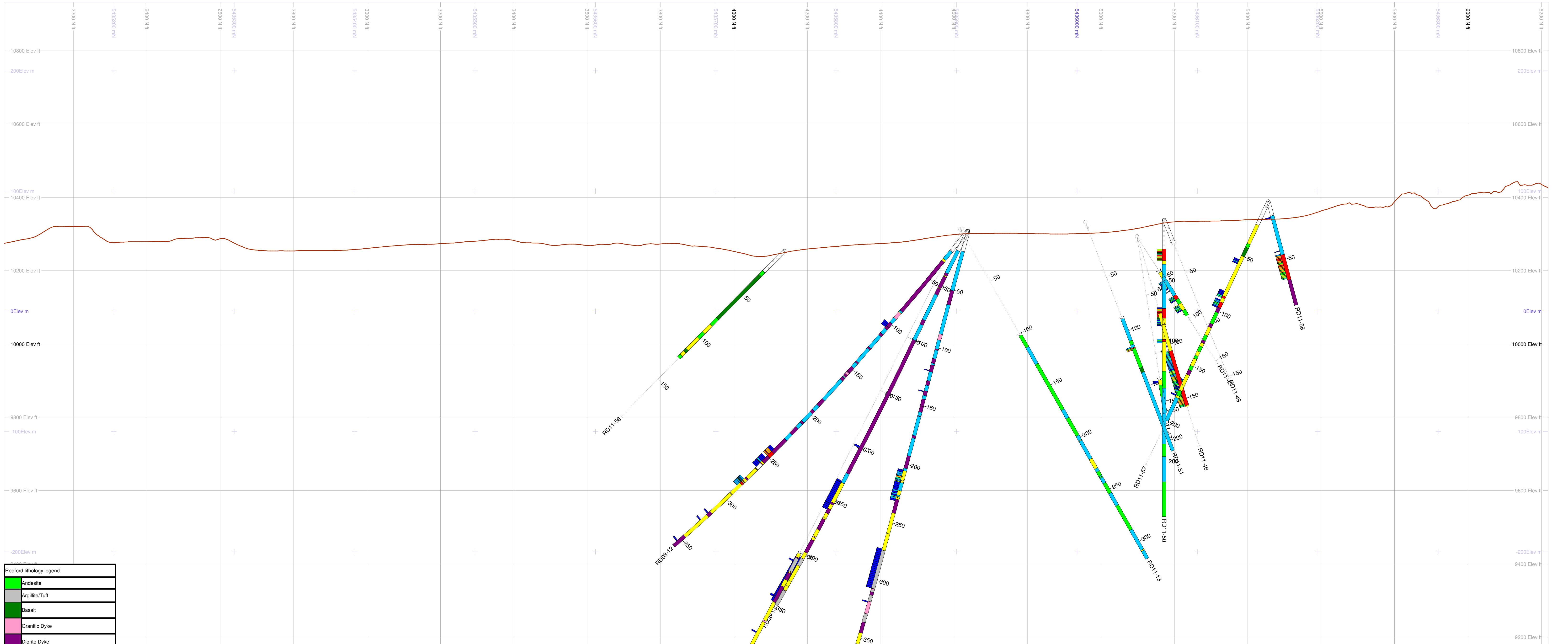
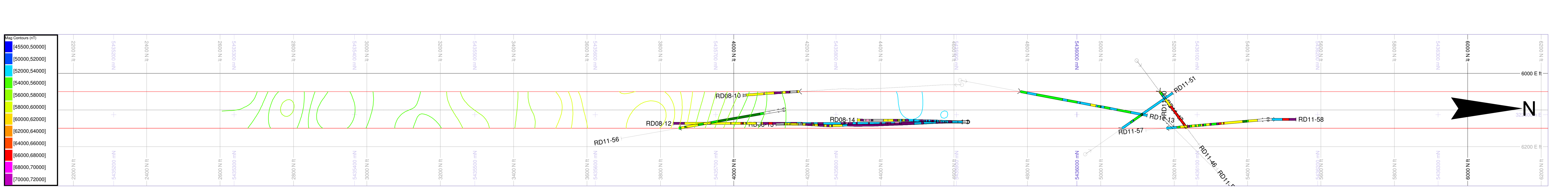
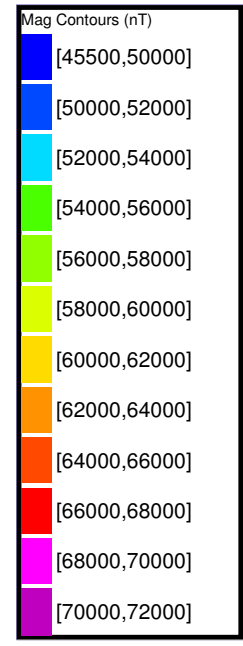


**RIDGEMONT**  
IRON ORE CORP

Brynnor Target Vertical Section 6000E

Section Number: 19		
Section Width: 30.48	Section Azimuth: 270	
Scale 1:1500	Date: 22/03/12	Drawn by: AB

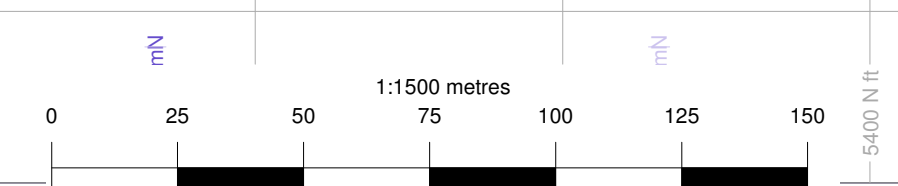




Redford lithology legend	
[Green]	Andesite
[Grey]	Argillite/Tuff
[Dark Green]	Basalt
[Pink]	Granitic Dyke
[Purple]	Diorite Dyke
[Black/White]	Fault
[Blue]	Gabbro
[White]	Lost Core
[Light Blue]	Marble
[Red]	Magnetite
[White]	No Log
[Dotted]	Overburden
[Orange]	Semi-Massive Magnetite
[Yellow]	Skarn
[Brown]	Tonalite
[Light Green]	Vein

Fe_pct	
[Blue]	[0,10]
[Light Blue]	[10,20]
[Green]	[20,30]
[Light Green]	[30,40]
[Yellow-Green]	[40,50]
[Yellow]	[50,60]
[Orange]	[60,70]
[Red]	[70,100]





# RIDGEMONT

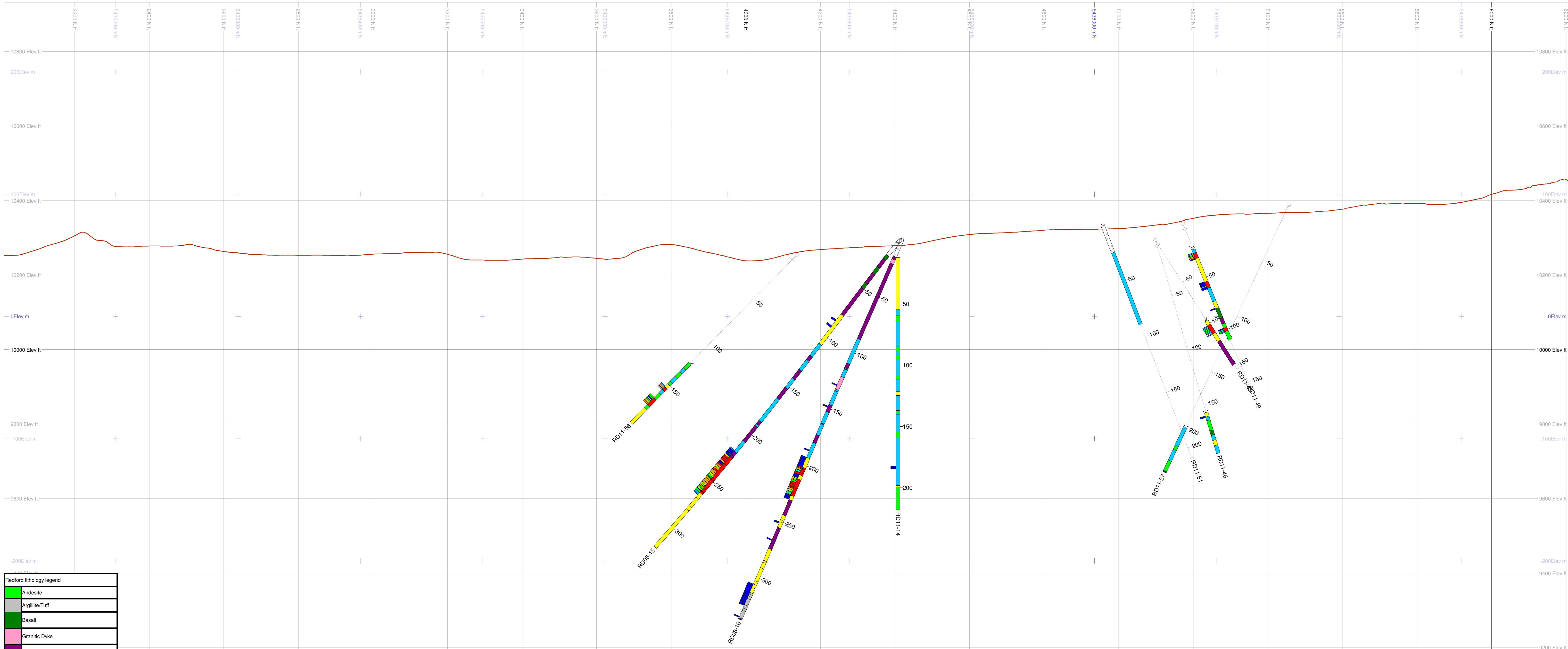
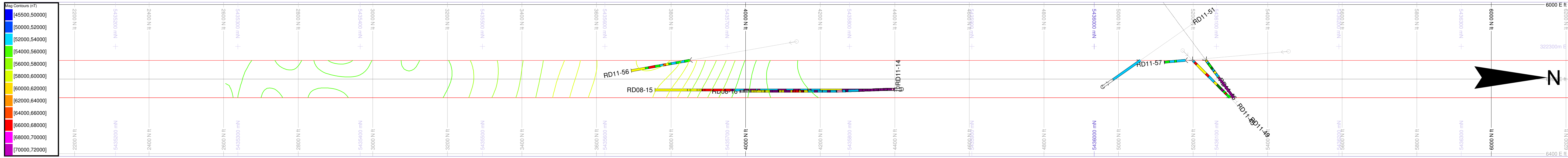
IRON ORE CORP

---

Brynnor Target Vertical Section 6100E

---

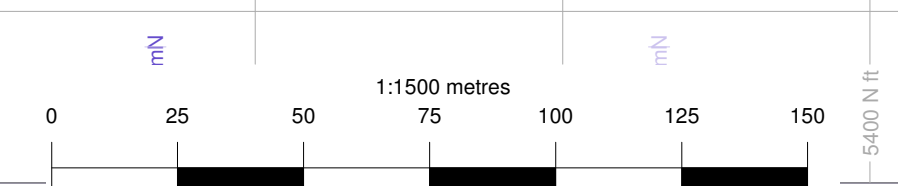
Section Number: 20	
Section Width: 30.48	Section Azimuth: 270
Scale 1:1500	Date: 22/03/12
Drawn by: AB	




Redford lithology legend	
[Green]	Andesite
[Light Green]	Argillite/Tuff
[Dark Green]	Basalt
[Pink]	Granitic Dyke
[Purple]	Diorite Dyke
[Black]	Fault
[Blue]	Gabbro
[White]	Lost Core
[Light Blue]	Marble
[Red]	Magnetite
[White]	No Log
[Grey]	Overburden
[Orange]	Semi-Massive Magnetite
[Yellow]	Skarn
[Brown]	Tonalite
[Light Green]	Vein

Fe_pct	
[Blue]	[0,10]
[Light Blue]	[10,20]
[Light Green]	[20,30]
[Green]	[30,40]
[Yellow-Green]	[40,50]
[Yellow]	[50,60]
[Orange]	[60,70]
[Red]	[70,100]





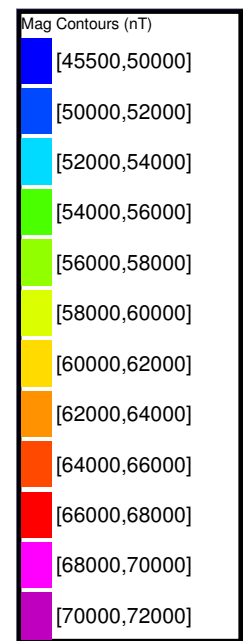
**RIDGEMONT**  
IRON ORE CORP

Brynnor Target Vertical Section 6200E

Section Number: 21

Section Width: 30.48      Section Azimuth: 270

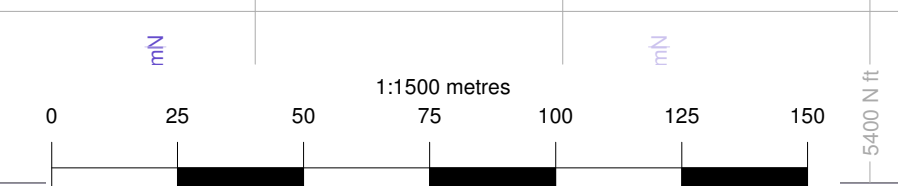
Scale 1:1500      Date: 22/03/12      Drawn by: AB



Redford lithology legend	
[Green]	Andesite
[Light Green]	Argillite/Tuff
[Dark Green]	Basalt
[Pink]	Granitic Dyke
[Purple]	Diorite Dyke
[Black/White]	Fault
[Blue]	Gabbro
[White]	Lost Core
[Light Blue]	Marble
[Red]	Magnetite
[White]	No Log
[Grey]	Overburden
[Orange]	Semi-Massive Magnetite
[Yellow]	Skarn
[Brown]	Tonalite
[Light Green]	Vein

Fe_pct	
[Blue]	[0,10]
[Light Blue]	[10,20]
[Light Green]	[20,30]
[Green]	[30,40]
[Yellow-Green]	[40,50]
[Yellow]	[50,60]
[Orange]	[60,70.1]



**RIDGEMONT**  
IRON ORE CORP

Brynnor Target Vertical Section 6300E

---

Section Number: 22

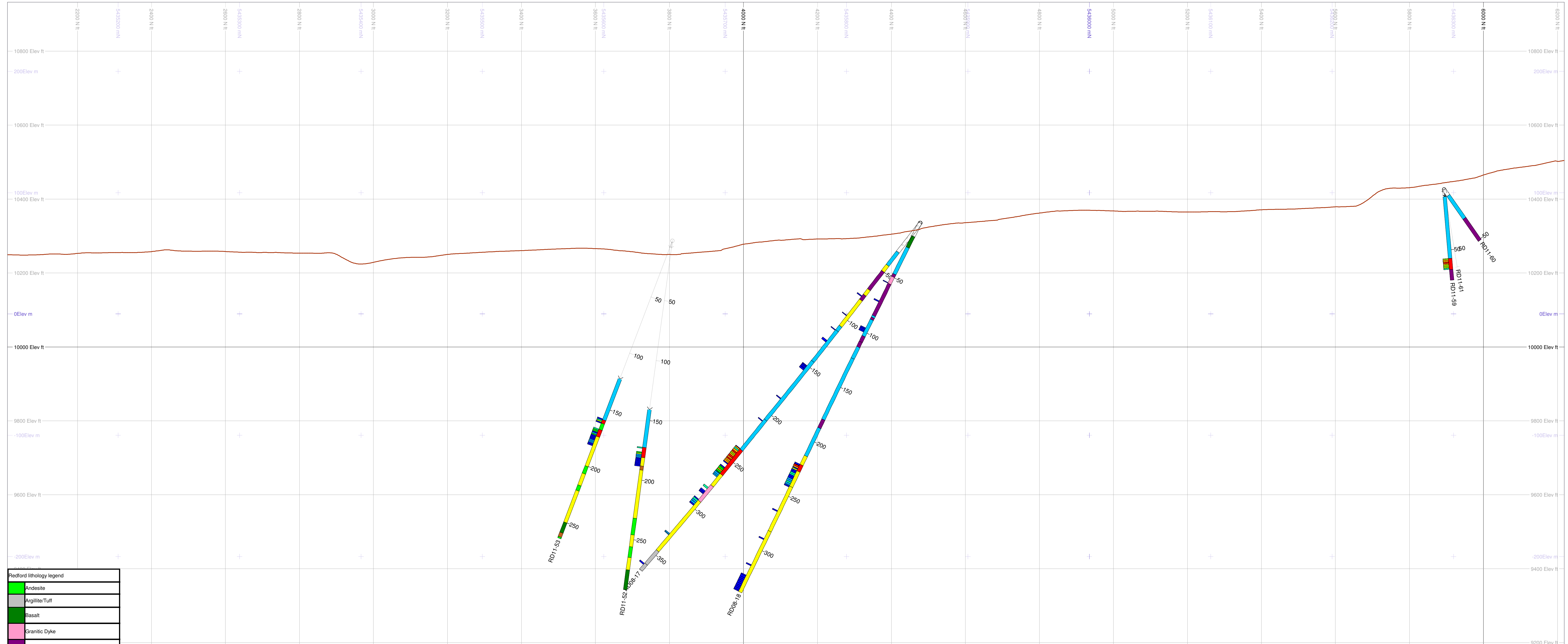
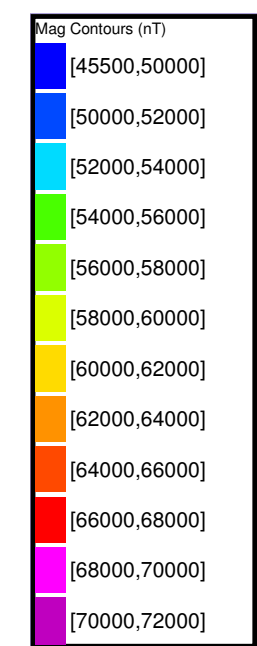
---

Section Width: 30.48	Section Azimuth: 270
----------------------	----------------------

---

Scale 1:1500	Date: 22/03/12	Drawn by: AB
--------------	----------------	--------------

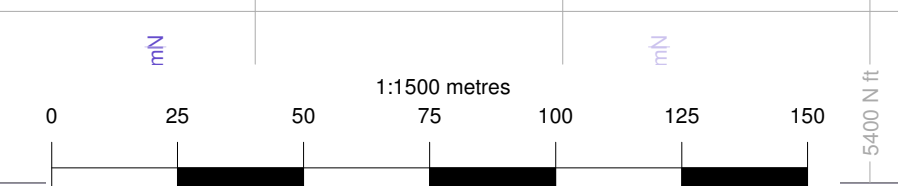





Redford lithology legend	
[Green]	Andesite
[Grey]	Argillite/Tuff
[Dark Green]	Basalt
[Pink]	Granitic Dyke
[Purple]	Diorite Dyke
[Black/White]	Fault
[Blue]	Gabbro
[White]	Lost Core
[Light Blue]	Marble
[Red]	Magnetite
[White]	No Log
[Dotted]	Overburden
[Orange]	Semi-Massive Magnetite
[Yellow]	Skarn
[Brown]	Tonalite
[Light Green]	Vein

Fe_pct	
[Blue]	[0,10]
[Light Blue]	[10,20]
[Green]	[20,30]
[Light Green]	[30,40]
[Yellow]	[40,50]
[Orange]	[50,60]
[Red]	[60,70-1]





## RIDGEMONT

IRON ORE CORP

---

Brynnor Target Vertical Section 6400E

---

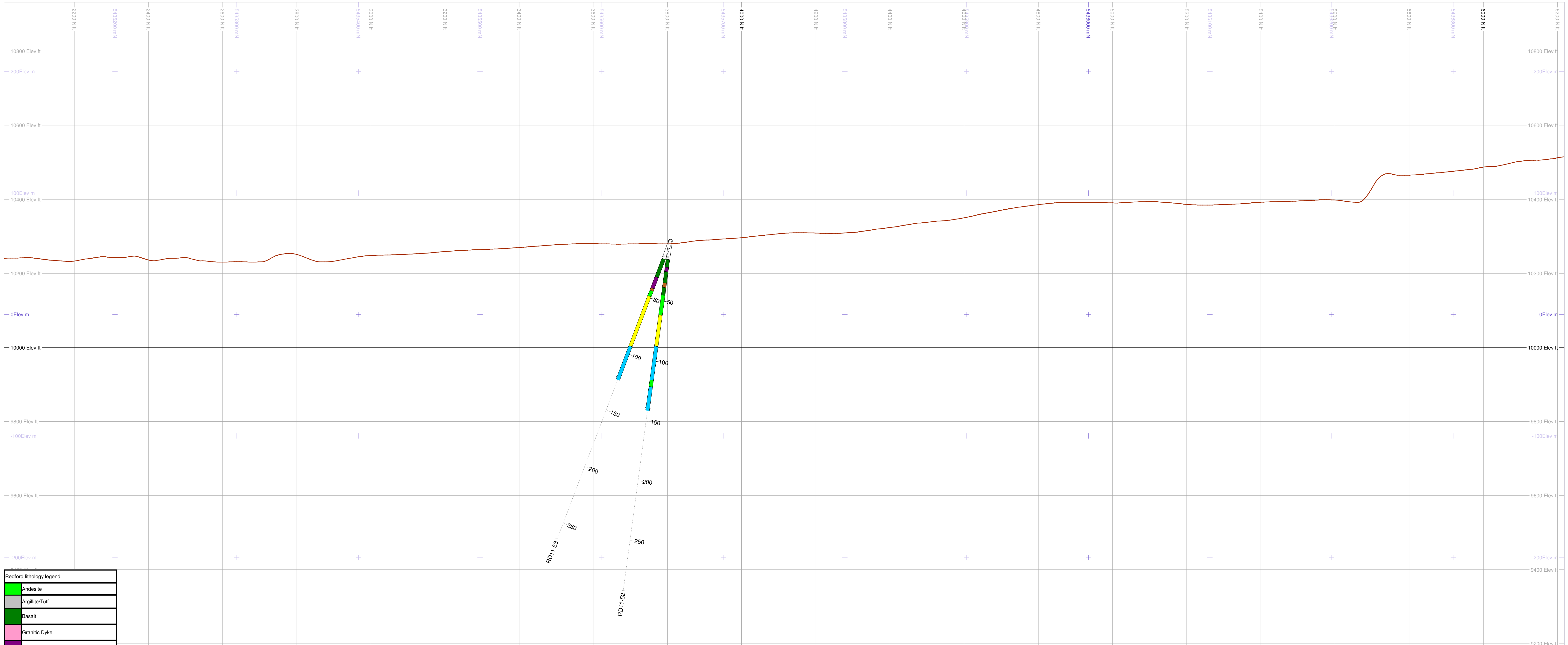
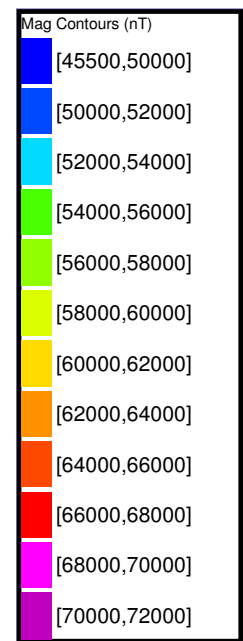
Section Number: 23

---

Section Width: 30.48	Section Azimuth: 270
----------------------	----------------------

---


Scale 1:1500	Date: 22/03/12	Drawn by: AB
--------------	----------------	--------------



Redford lithology legend	
	Andesite
	Argillite/Tuff
	Basalt
	Granitic Dyke
	Diorite Dyke
	Fault
	Gabbro
	Lost Core
	Marble
	Magnetite
	No Log
	Overburden
	Semi-Massive Magnetite
	Skarn
	Tonalite
	Vein

Fe_pct	
	[0,10]
	[10,20]
	[20,30]
	[30,40]
	[40,50]
	[50,60]
	[60,70]
	[70,100]



**RIDGEMONT**  
IRON ORE CORP

---

Brynnor Target Vertical Section 6500E

---

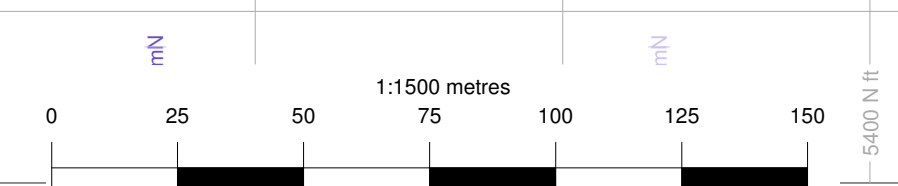
Section Number: 24

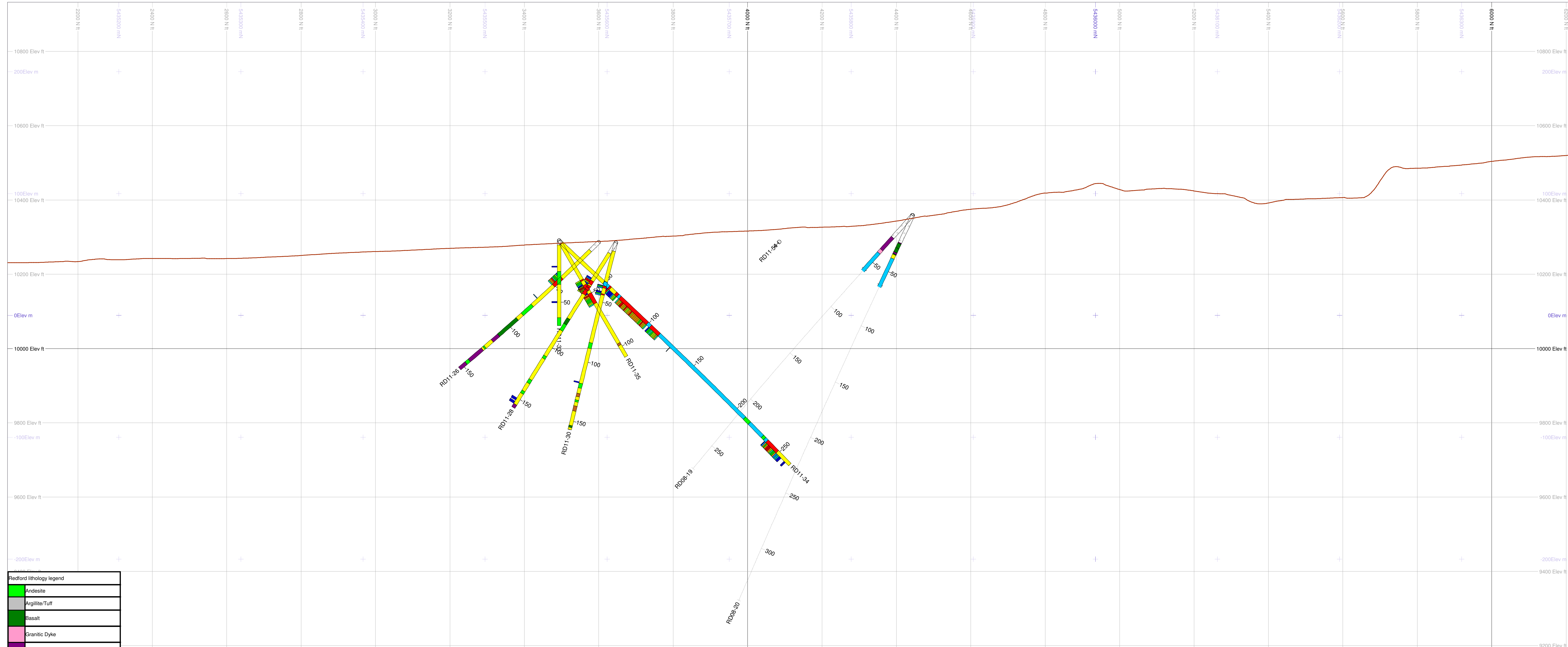
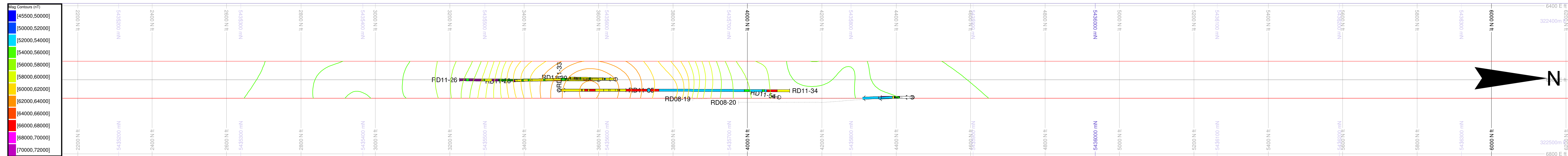
---

Section Width: 30.48	Section Azimuth: 270
----------------------	----------------------

---

Scale 1:1500	Date: 22/03/12	Drawn by: AB
--------------	----------------	--------------

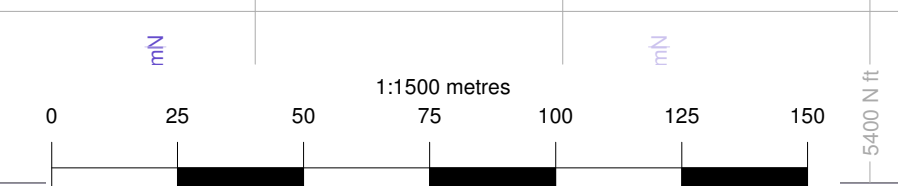





Redford lithology legend	
[Green]	Andesite
[Grey]	Argillite/Tuff
[Dark Grey]	Basalt
[Pink]	Granitic Dyke
[Purple]	Diorite Dyke
[Black]	Fault
[Blue]	Gabbro
[White]	Lost Core
[Light Blue]	Marble
[Red]	Magnetite
[White]	No Log
[Dotted]	Overburden
[Orange]	Semi-Massive Magnetite
[Yellow]	Skarn
[Brown]	Tonalite
[Light Green]	Vein

Fe_pct	
[Blue]	[0,10]
[Light Blue]	[10,20]
[Green]	[20,30]
[Light Green]	[30,40]
[Yellow]	[40,50]
[Orange]	[50,60]
[Red]	[60,70-1]





**RIDGEMONT**  
IRON ORE CORP

---

Brynnor Target Vertical Section 6600E

---

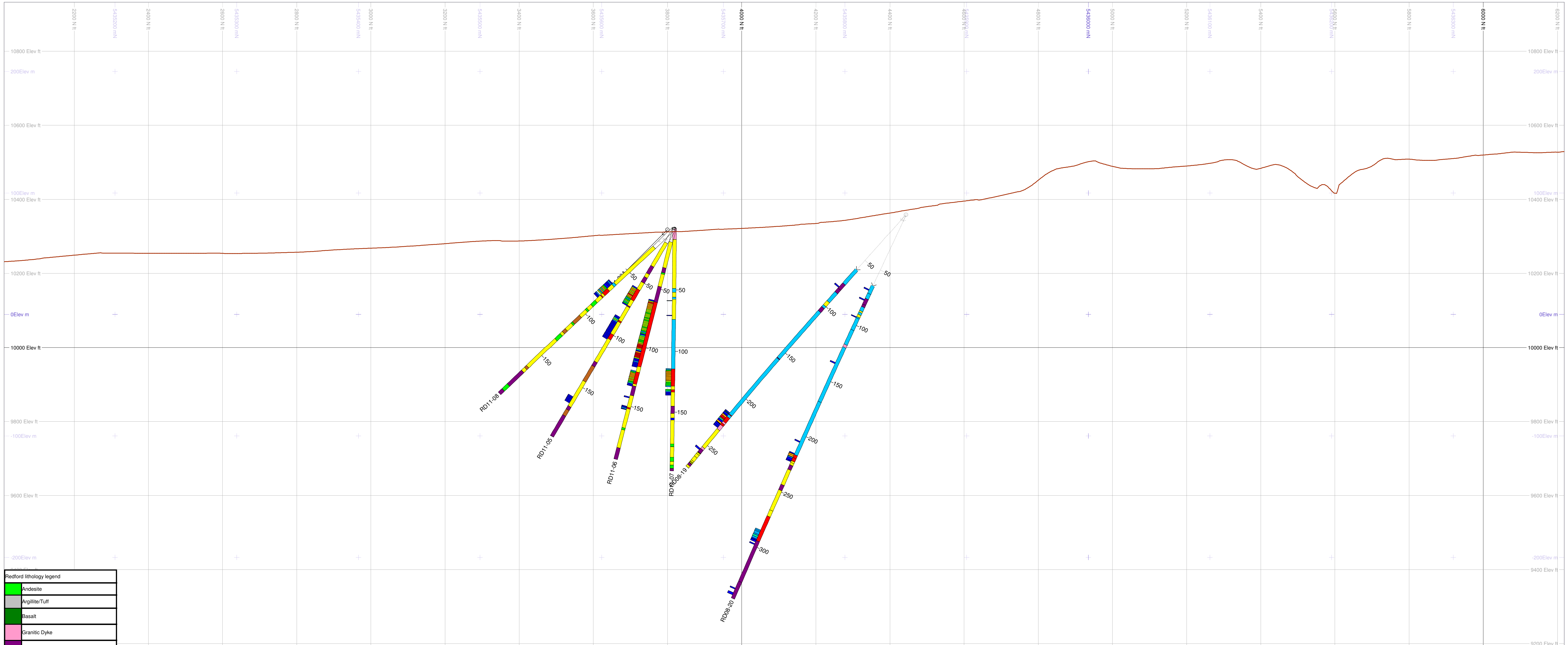
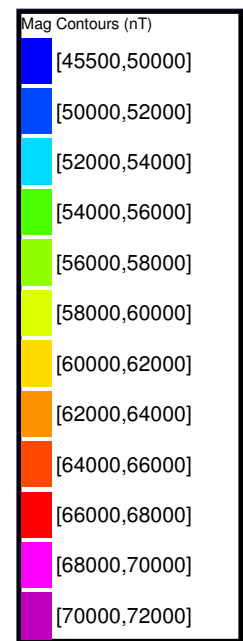
Section Number: 25

---

Section Width: 30.48	Section Azimuth: 270
----------------------	----------------------

---

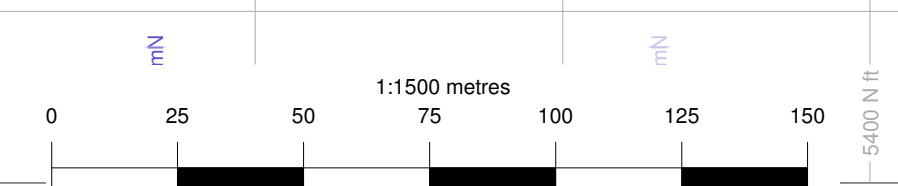
Scale 1:1500	Date: 22/03/12	Drawn by: AB
--------------	----------------	--------------




Redford lithology legend	
	Andesite
	Argillite/Tuff
	Basalt
	Granitic Dyke
	Diorite Dyke
	Fault
	Gabbro
	Lost Core
	Marble
	Magnetite
	No Log
	Overburden
	Semi-Massive Magnetite
	Skarn
	Tonalite
	Vein

Fe_pct
0,10
10,20
20,30
30,40
40,50
50,60
60,70,1





**RIDGEMONT**  
IRON ORE CORP

---

Brynnor Target Vertical Section 6700E

---

Section Number: 26

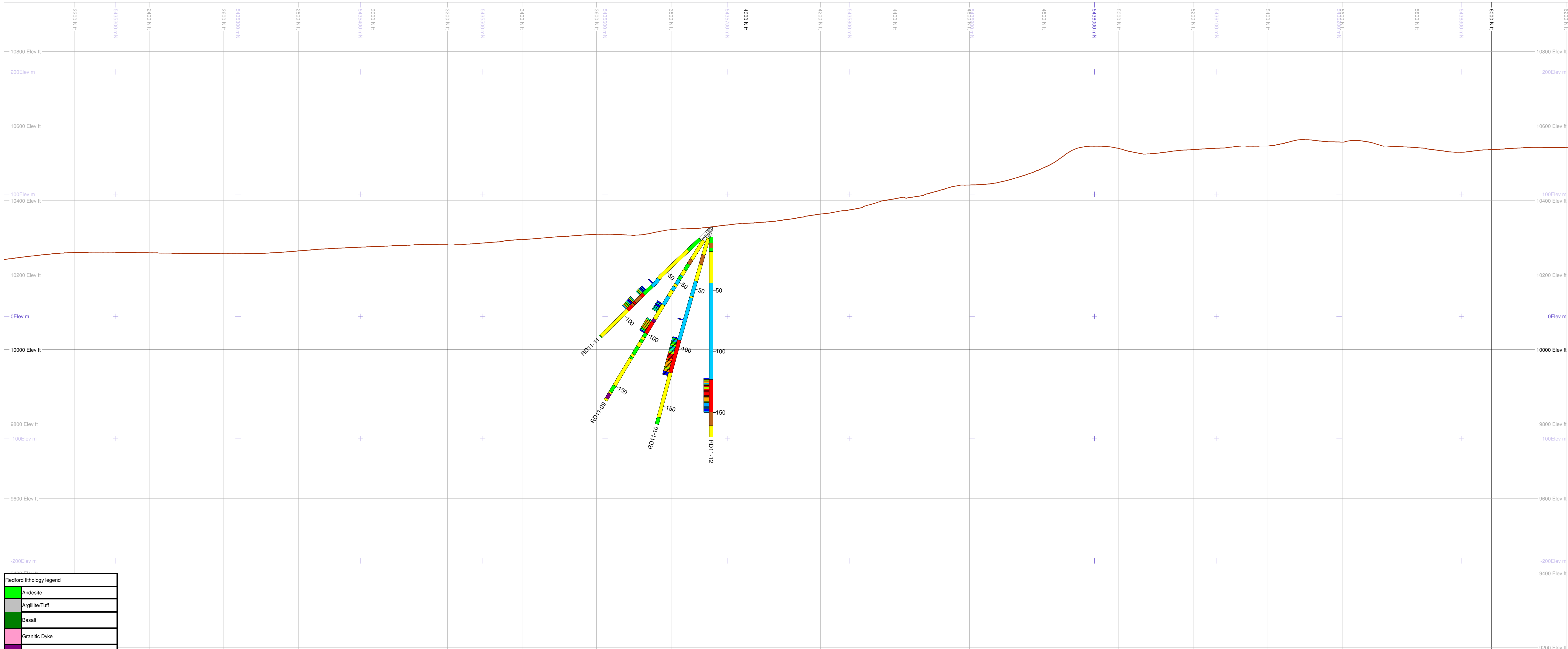
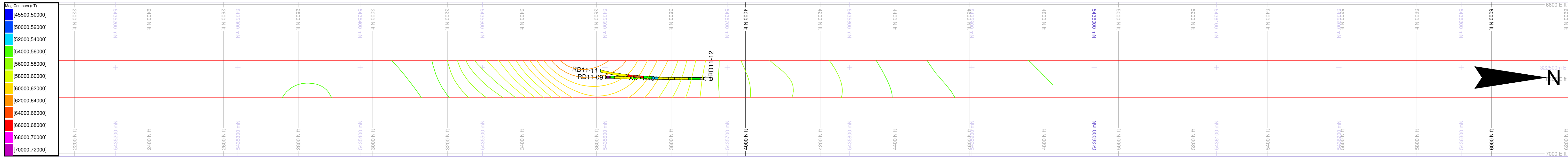
---

Section Width: 30.48	Section Azimuth: 270
----------------------	----------------------

---

Scale 1:1500	Date: 22/03/12	Drawn by: AB
--------------	----------------	--------------






Redford lithology legend	
[Green]	Andesite
[Grey]	Argillite/Tuff
[Dark Green]	Basalt
[Pink]	Granitic Dyke
[Purple]	Diorite Dyke
[Black/White]	Fault
[Blue]	Gabbro
[White]	Lost Core
[Light Blue]	Marble
[Red]	Magnetite
[White]	No Log
[Dotted]	Overburden
[Orange]	Semi-Massive Magnetite
[Yellow]	Skarn
[Brown]	Tonalite
[Light Green]	Vein

Fe <sub>2</sub> O <sub>3</sub> pct	
[Blue]	[0,10]
[Light Blue]	[10,20]
[Green]	[20,30]
[Light Green]	[30,40]
[Yellow-Green]	[40,50]
[Yellow]	[50,60]
[Red-Orange]	[60,70-1]



**RIDGEMONT**  
IRON ORE CORP

---

Brynnor Target Vertical Section 6800E

---

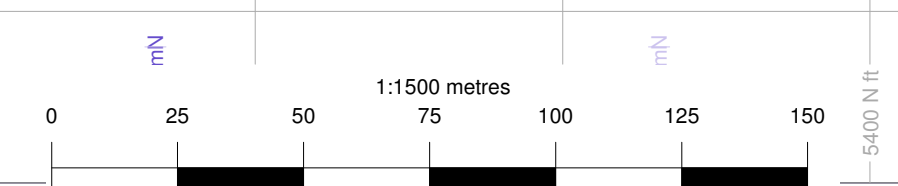
Section Number: 27

---

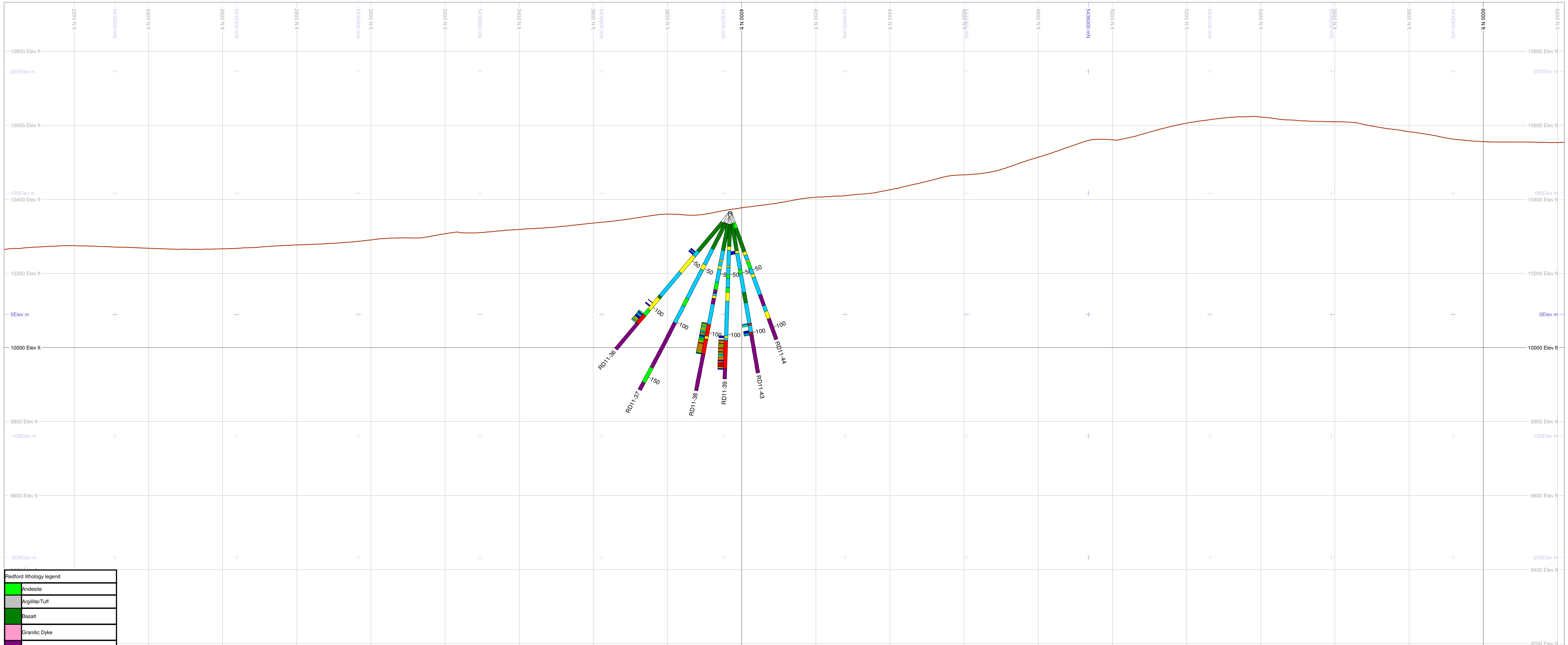
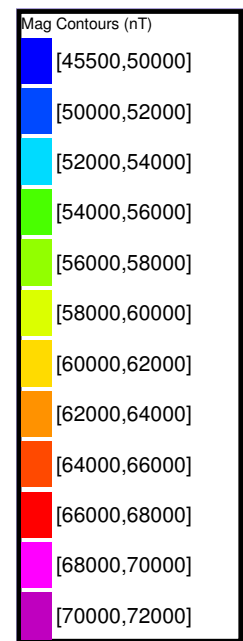
Section Width: 30.48	Section Azimuth: 270
----------------------	----------------------

---

Scale 1:1500	Date: 22/03/12	Drawn by: AB
--------------	----------------	--------------



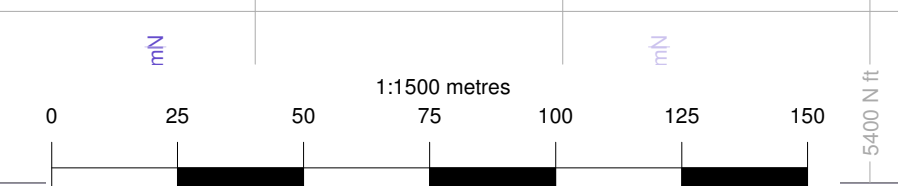





Redford lithology legend	
[Green]	Andesite
[Light Green]	Argillite/Tuff
[Dark Green]	Basalt
[Pink]	Granitic Dyke
[Purple]	Diorite Dyke
[Black/White]	Fault
[Blue]	Gabbro
[White]	Lost Core
[Light Blue]	Marble
[Red]	Magnetite
[White]	No Log
[Dotted]	Overburden
[Orange]	Semi-Massive Magnetite
[Yellow]	Skarn
[Brown]	Tonalite
[Light Green]	Vein

Fe_pct	
[Blue]	0,10]
[Light Blue]	10,20]
[Light Green]	20,30]
[Green]	30,40]
[Yellow-Green]	40,50]
[Yellow]	50,60]
[Orange]	60,70,1]





**RIDGEMONT**  
IRON ORE CORP

---

Brynnor Target Vertical Section 6900E

---

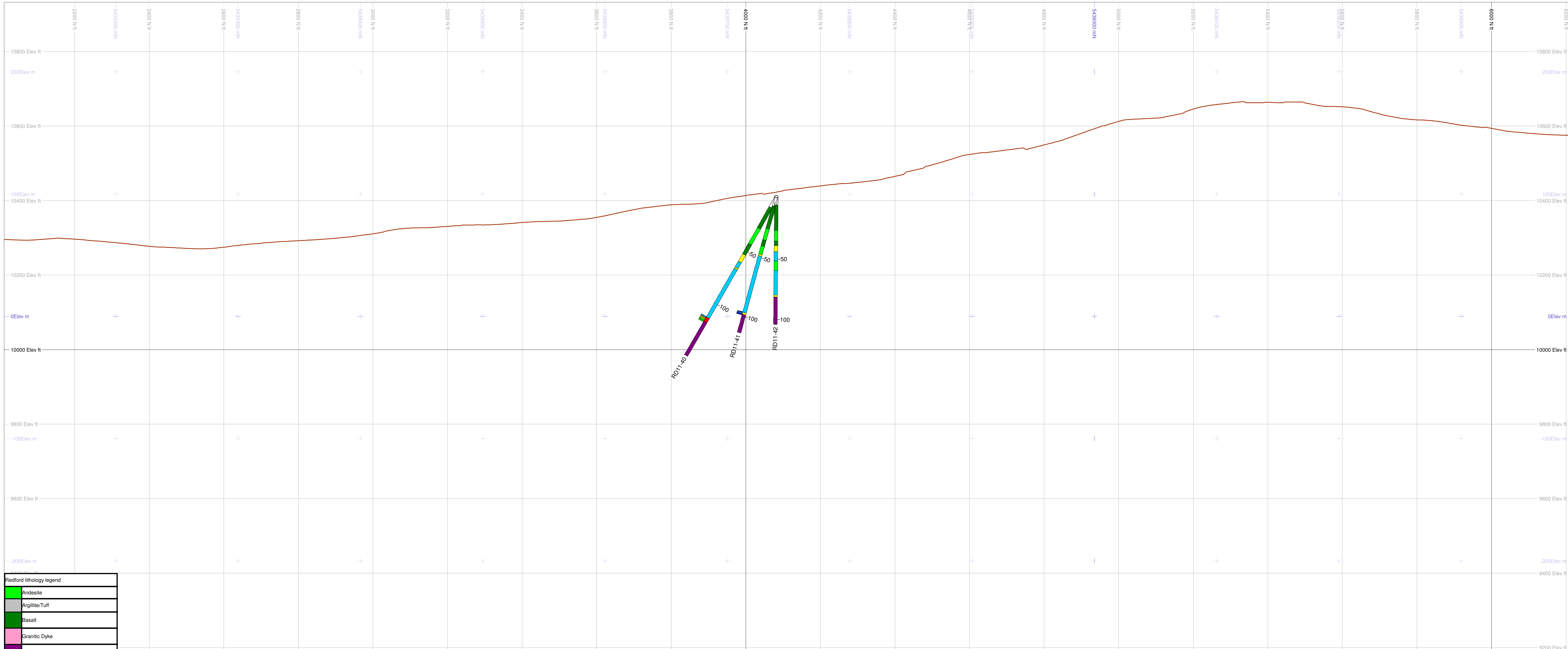
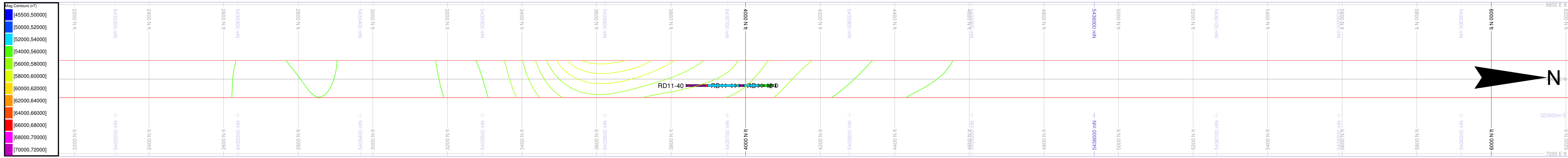
Section Number: 28

---

Section Width: 30.48	Section Azimuth: 270
----------------------	----------------------

---

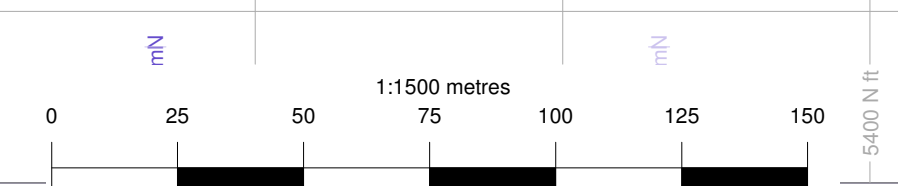
Scale 1:1500	Date: 22/03/12	Drawn by: AB
--------------	----------------	--------------




Redford lithology legend	
[Green]	Andesite
[Grey]	Argillite/Tuff
[Dark Green]	Basalt
[Pink]	Granitic Dyke
[Purple]	Diorite Dyke
[Black/White]	Fault
[Blue]	Gabbro
[White]	Lost Core
[Light Blue]	Marble
[Red]	Magnetite
[White]	No Log
[Dotted]	Overburden
[Orange]	Semi-Massive Magnetite
[Yellow]	Skarn
[Brown]	Tonalite
[Light Green]	Vein

Fe_pct	
[Blue]	[0,10]
[Light Blue]	[10,20]
[Green]	[20,30]
[Light Green]	[30,40]
[Yellow-Green]	[40,50]
[Yellow]	[50,60]
[Red-Orange]	[60,70-1]





**RIDGEMONT**  
IRON ORE CORP

Brynnor Target Vertical Section 7000E

Section Number: 29

Section Width: 30.48      Section Azimuth: 270

Scale 1:1500      Date: 22/03/12      Drawn by: AB


**Appendix F**  
**Statement of Qualifications**

## Statement of Qualifications

I Arnold R. Pollmer of 7570 Bell McKinnon Rd. Duncan, BC, Canada, V9L 6B1, hereby certify:

1. I am a self-employed consulting geologist with greater than 35 years experience in the mining and exploration industry.
2. I am a graduate of Wisconsin State University (1972) with an Honours Bachelor of Science in Geology.
3. I am a member of the Association of Professional Engineers and Geoscientists of BC since 1992.
4. I am responsible for the execution, management and quality assurance of this project and its personnel.
5. I have an unfettered position regarding this project, with no prior involvement and no financial interests.
6. I believe this report to be correct and based on factual information.

Dated this 1<sup>st</sup> day of May, 2012

  
A. R. Pollmer, P. Geo

