

APPENDIX T

Exploration Drillhole Logs

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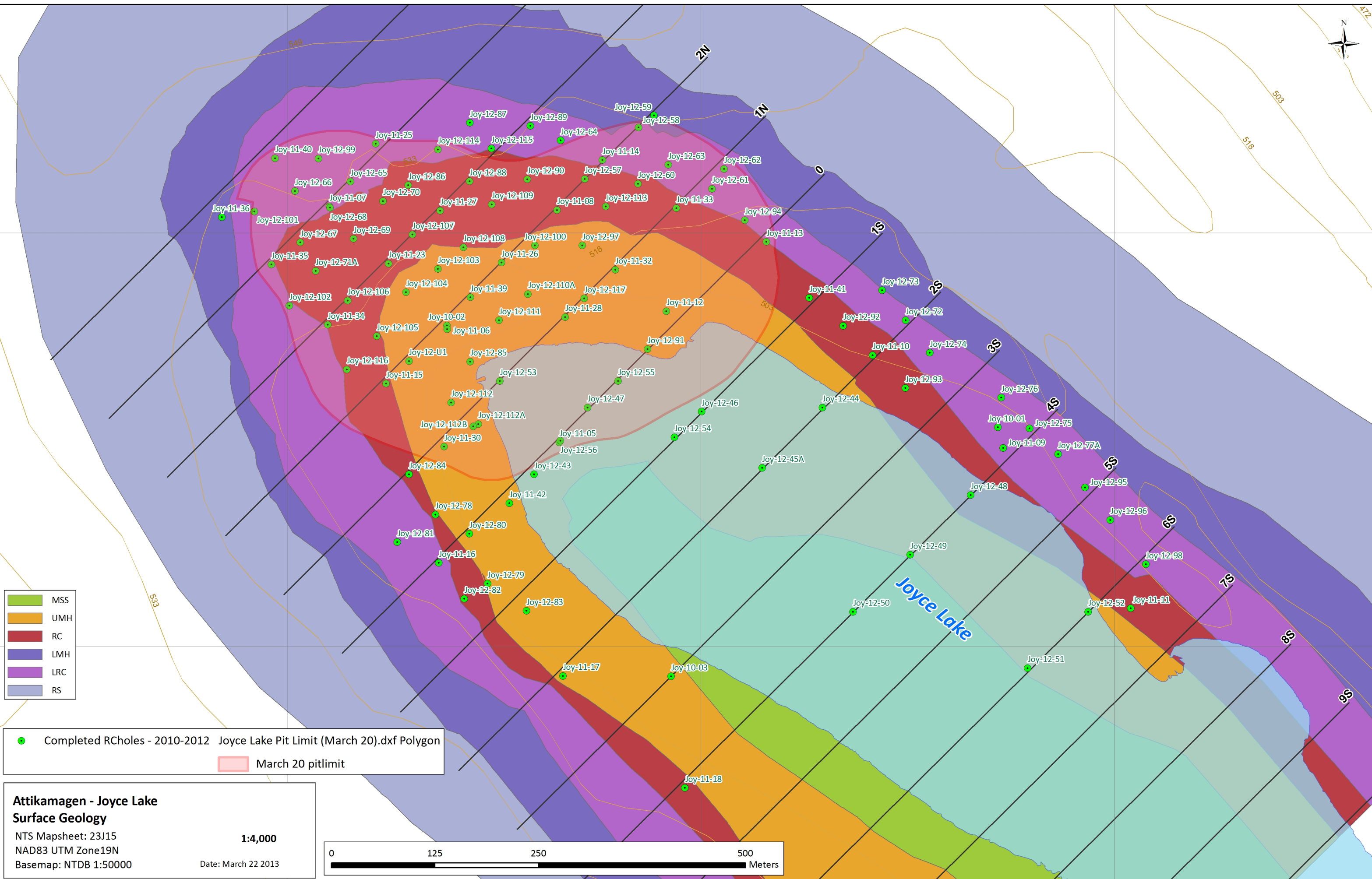


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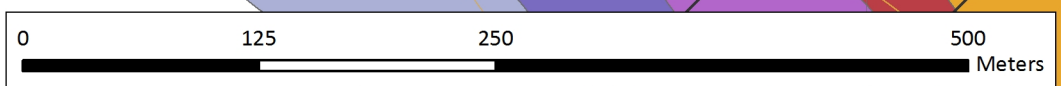


- MSS
- UMH
- RC
- LMH
- LRC
- RS

Completed Rcholes - 2010-2012
 Joyce Lake Pit Limit (March 20).dxf Polygon
 March 20 pitlimit

Attikamagen - Joyce Lake
Surface Geology
 NTS Mapsheet: 23J15
 NAD83 UTM Zone19N
 Basemap: NTDB 1:50000
 Date: March 22 2013

1:4,000



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**LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE**

Hole No.: JOY-11-06

Licence No.: 013445M (now 020238M)

Drilled by: Cabo

From: 4/26/2011

Section: 2N

Described by: S.Lahti/M.Wellstead

To: 5/18/2011

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 143.00 m

East	658,193.00
North	6,086,388.00
Elevation	526.74

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	143.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size:

Cemented: No

Stored: Yes

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	12.00	UBG UBG Minimal magnetite present, ~80/20 red/blue-grey chips, clear-red/orange water.	3.00	6.00	492012	3.00			
			6.00	9.00	492013	3.00			
			9.00	12.00	492014	3.00			
12.00	42.00	UBG UBG Med.-fine magnetite, 70/30 blue-grey to red chips, dark brown water.	12.00	15.00	492015	3.00			
			15.00	18.00	492016	3.00			
			18.00	21.00	492017	3.00			
			21.00	24.00	492018	3.00			
			24.00	27.00	492019	3.00			
			27.00	30.00	492020	3.00			
			30.00	33.00	492021	3.00			
			33.00	36.00	492022	3.00			
			36.00	39.00	492023	3.00			
			39.00	42.00	492026	3.00			
42.00	54.00	UBG UBG Coarse blue-grey fragments plus medium-fine magnetite. Water greyish.	42.00	45.00	492027	3.00			
			45.00	48.00	492028	3.00			
			48.00	51.00	492029	3.00			
			51.00	54.00	492032	3.00			
54.00	96.00	RC RC Red water, fines very magnetic, mostly red material (chert) ~90/10, there appears to be a few pinkish/white grains either quartz/quartite, overall grain size is fine however there is the occasional coarse/medium grain	54.00	57.00	492033	3.00			
			57.00	60.00	492034	3.00			
			60.00	63.00	492035	3.00			
			63.00	66.00	492036	3.00			
			66.00	69.00	492038	3.00			
			69.00	72.00	492039	3.00			
			72.00	75.00	492040	3.00			
			75.00	78.00	492041	3.00			
			78.00	81.00	492042	3.00			
			81.00	84.00	492043	3.00			
			84.00	87.00	492044	3.00			
			87.00	90.00	492045	3.00			
			90.00	93.00	492046	3.00			

Description			Assay				
			From	To	Number	Length	Fe (%)
96.00	120.00	LBG LBG Red to light red water, very haematite rich ~85/10/5 (quartz 10, red chert/material 5), High magnetic response, majority of grains are fine 75/25 (haematite has a leached look)	93.00	96.00	492047	3.00	
			96.00	99.00	492048	3.00	
			99.00	102.00	492049	3.00	
			102.00	105.00	492051	3.00	
			105.00	108.00	492052	3.00	
			108.00	111.00	492053	3.00	
			111.00	114.00	492055	3.00	
			114.00	117.00	492056	3.00	
			117.00	120.00	492057	3.00	
			120.00	141.00	LBG LBG Red to light red water, ~90/10 bg to red coloration, haematite/goethite present, sample was mainly fine/v.fine grains with scattered medium grains, 90/10 fine to medium/coarse.	120.00	123.00
123.00	126.00	492059				3.00	
126.00	129.00	492060				3.00	
129.00	132.00	492061				3.00	
132.00	135.00	492062				3.00	
135.00	138.00	492064				3.00	
138.00	141.00	492065				3.00	
141.00	142.00	LRC LRC Dark brown/red water, grains starting to move back into a more red environment ~60/40, matrix more medium grained now, haematite still present in decent amounts, trace amounts of quartz bearing pyrite visible, v.fine red iron, high magnetic response.	141.00	142.00	492066	1.00	
143.00	End of DDH Number of samples: 47 Number of QAQC samples: 7 Total sampled length: 139.00						

**LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE**

Hole No.: JOY-11-07

Licence No.: 013445M

Drilled by: Cabo

From: 5/19/2011

Section: 4N

Described by: S.Lahti

To: 5/21/2011

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 102.00 m

East	658,047.00
North	6,086,529.00
Elevation	524.94

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	102.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size:

Cemented: No

Stored: Yes

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	12.00	OB OB Overburden							
12.00	54.00	LBG LBG Dark red water (burgandy), ~80% bg. (haematite/blue chert), 20% red chert/mineral, ~1% yellow mineral (limonite), mainly medium.coarse grained, fines consist of burgandy/bg. 50/50 color, very magnetic fines, occasional blue mineral "picks up".	12.00	15.00	492067	3.00			
			15.00	18.00	492068	3.00			
			18.00	21.00	492069	3.00			
			21.00	24.00	492070	3.00			
			24.00	27.00	492073	3.00			
			27.00	30.00	492074	3.00			
			30.00	33.00	492076	3.00			
			33.00	36.00	492077	3.00			
			36.00	39.00	492078	3.00			
			39.00	42.00	492080	3.00			
			42.00	45.00	492081	3.00			
			45.00	48.00	492082	3.00			
			48.00	51.00	492083	3.00			
			51.00	54.00	492084	3.00			
54.00	93.00	LRC LRC Light brown clear water, 70/30 red cherty to bg. (haematite/chert), trace amounts of either a white chert/quartzite, very coarse grained, low mag. res., trace amounts of a yellow mineral (limonite).	54.00	57.00	492085	3.00			
			57.00	60.00	492087	3.00			
			60.00	63.00	492088	3.00			
			63.00	66.00	492089	3.00			
			66.00	69.00	492091	3.00			
			69.00	72.00	492092	3.00			
			72.00	75.00	492093	3.00			
			75.00	78.00	492094	3.00			
			78.00	81.00	492095	3.00			
			81.00	84.00	492097	3.00			
			84.00	87.00	492098	3.00			
			87.00	90.00	492099	3.00			
			90.00	93.00	492100	3.00			
93.00	102.00	Ruth Ruth Dark brown water, 85% black/grey shale and bg. mixture, although has 15% quartz content.							

102.00 End of DDH
Number of samples: 27
Number of QAQC samples: 7
Total sampled length: 81.00

**LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE**

Hole No.: JOY-11-08

Licence No.: 013445M

Drilled by: Cabo

From: 5/22/2011

Section: 2N

Described by: S.Lahti

To: 5/27/2011

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 102.00 m

East	658,324.00
North	6,086,530.00
Elevation	528.76

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	114.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size:

Cemented: No

Stored: Yes

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	60.00	RC RC Red water, 70/30 red to bg., ~25% quartzite (pink/white), trace amounts of yellow mineral (limonite), more fine grained 60/40 to medium, low/medium mag. res., ~5-10% of the quartzite is quartz (milky/clear).	3.00	6.00	492101	3.00			
			6.00	9.00	492102	3.00			
			9.00	12.00	492104	3.00			
			12.00	15.00	492105	3.00			
			15.00	18.00	492107	3.00			
			18.00	21.00	492108	3.00			
			21.00	24.00	492109	3.00			
			24.00	27.00	492110	3.00			
			27.00	30.00	492111	3.00			
			30.00	33.00	492112	3.00			
			33.00	36.00	492113	3.00			
			36.00	39.00	492114	3.00			
			39.00	42.00	492116	3.00			
			42.00	45.00	492117	3.00			
			45.00	48.00	492118	3.00			
			48.00	51.00	492119	3.00			
			51.00	54.00	492120	3.00			
			54.00	57.00	492121	3.00			
			57.00	60.00	492122	3.00			
60.00	66.00	LBG LBG Red/blueish hue water, 90/10 bg. to red, coarse grained, 2-5% yellow mineral (limonite), fines magnetic-larger coarse not, Overall colour dark steel blue.	60.00	63.00	492123	3.00			
			63.00	66.00	492124	3.00			
66.00	108.00	LRC LRC Dark red water, 65/35 red to bg., ~10% white chert/quartzite (coarse), trace amounts of yellow mineral (limonite), medium/coarse grained, fines/medium good mag. res., Overall looks like last samples just slightly more coarse and red.	66.00	69.00	492125	3.00			
			69.00	72.00	492126	3.00			
			72.00	75.00	492127	3.00			
			75.00	78.00	492128	3.00			
			78.00	81.00	492130	3.00			
			81.00	84.00	492131	3.00			
			84.00	87.00	492132	3.00			
			87.00	90.00	492133	3.00			

Description			Assay				
			From	To	Number	Length	Fe (%)
108.00	114.00	Ruth Ruth Dark grey water, 90/10 bg. to red, majority of sample seems to be grey/black shale (soft ~20% grey), some haematite, v.fine to coarse grained ~40% v.fine, some bg. picked up for magnet, hard to tell the difference in haematite from the black shale, the sample was very light in weight.	90.00	93.00	492134	3.00	
			93.00	96.00	492135	3.00	
			96.00	99.00	492136	3.00	
			99.00	102.00	492138	3.00	
			102.00	105.00	492139	3.00	
			105.00	108.00	492140	3.00	
			108.00	111.00	492141	3.00	
			111.00	114.00	492142	3.00	
			102.00	End of DDH Number of samples: 37 Number of QAQC samples: 5 Total sampled length: 111.00			

**LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE**

Hole No.: JOY-11-09

Licence No.: 013445M (now 020231M)

Drilled by: Cabo

From: 5/28/2011

Section: 4S

Described by: S.Lahti

To: 5/31/2011

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 140.00 m

East	658,859.00
North	6,086,265.00
Elevation	514.65

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	141.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size:

Cemented: No

Stored: Yes

Description			Assay				
			From	To	Number	Length	Fe (%)
0.00	9.00	OB OB Overburden	3.00	6.00	492143	3.00	
			6.00	9.00	492144	3.00	
9.00	27.00	UBG UBG Dark red water, 60/40 bg. to red (bg.- looks like massive haematite), 5% white chert/quartz, fine to medium grained overall, lots of v.fine iron (red), high mag. res.	9.00	12.00	492145	3.00	
			12.00	15.00	492146	3.00	
			15.00	18.00	492147	3.00	
			18.00	21.00	492148	3.00	
			21.00	24.00	492149	3.00	
			24.00	27.00	492150	3.00	
27.00	54.00	RC RC Dark red water, 75/25 bg. to red, a lot of very fine iron ~20%, trace quartz/limonite, medium to very coarse grained, good mag. res	27.00	30.00	492152	3.00	
			30.00	33.00	492153	3.00	
			33.00	36.00	492154	3.00	
			36.00	39.00	492155	3.00	
			39.00	42.00	492156	3.00	
			42.00	45.00	492157	3.00	
			45.00	48.00	492158	3.00	
			48.00	51.00	492159	3.00	
54.00	69.00	LBG LBG Very dark red water, 55/45 red to bg., high v.fine iron content ~50%, fine to medium grained, good mag. res.,	54.00	57.00	492161	3.00	
			57.00	60.00	492163	3.00	
			60.00	63.00	492164	3.00	
			63.00	66.00	492165	3.00	
			66.00	69.00	492166	3.00	
69.00	111.00	LRC LRC Dark red water, 60/40 red to bg., trace amounts fo quartz, medium to coarse grained, fines magnetic, (similar to previous sample)	69.00	72.00	492168	3.00	
			72.00	75.00	492169	3.00	
			75.00	78.00	492170	3.00	
			78.00	81.00	492171	3.00	
			81.00	84.00	492172	3.00	
			84.00	87.00	492173	3.00	
			87.00	90.00	492174	3.00	
			90.00	93.00	492176	3.00	
			93.00	96.00	492177	3.00	
		96.00	99.00	492178	3.00		

Description			Assay				
			From	To	Number	Length	Fe (%)
111.00	141.00	Ruth Ruth Dark red/ oil-black water, looks 30/30 root shale to bg., with 40% red, ~20% very fine iron, low mag. res., very muddy. [looks black-brown]	99.00	102.00	492179	3.00	
			102.00	105.00	492180	3.00	
			105.00	108.00	492181	3.00	
			108.00	111.00	492182	3.00	
			111.00	114.00	492183	3.00	
			114.00	117.00	492184	3.00	
			117.00	120.00	492185	3.00	
			120.00	123.00	492186	3.00	
			123.00	126.00	492188	3.00	
			126.00	129.00	492189	3.00	
			129.00	132.00	492190	3.00	
			132.00	135.00	492191	3.00	
			135.00	138.00	492192	3.00	
			138.00	141.00	492193	3.00	
			140.00	End of DDH Number of samples: 46 Number of QAQC samples: 5 Total sampled length: 138.00			

**LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE**

Hole No.: JOY-11-10

Licence No.: 013445M

Drilled by: Cabo

From: 1/6/2011

Section: 2S

Described by: S.Lahti

To: 5/6/2011

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 123.00 m

East	658,709.00
North	6,086,356.00
Elevation	517.09

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	123.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size:

Cemented: No

Stored: Yes

Description			Assay					
			From	To	Number	Length	Fe (%)	
0.00	3.00	OB OB Overburden						
3.00	18.00	UBG UBG Light red-clear water, 75/25 bg. to red (haematite rich), medium to very coarse grained, high mag., ~5-10% white q.zite/quartz.	3.00	6.00	492194	3.00		
			6.00	9.00	492195	3.00		
			9.00	12.00	492196	3.00		
			12.00	15.00	492197	3.00		
			15.00	18.00	492198	3.00		
18.00	66.00	RC RC Dark red water, 70/30 red to bg., 25-30% pinkish-white quartzite, light orange chert presesnt, 2-5% limonite, mainly a fine-medium bulk, few very coarse grains, low mag.	18.00	21.00	492199	3.00		
			21.00	24.00	492200	3.00		
			24.00	27.00	492202	3.00		
			27.00	30.00	492203	3.00		
			30.00	33.00	492204	3.00		
			33.00	36.00	492205	3.00		
			36.00	39.00	492206	3.00		
			39.00	42.00	492208	3.00		
			42.00	45.00	492209	3.00		
			45.00	48.00	492210	3.00		
			48.00	51.00	492211	3.00		
			51.00	54.00	492213	3.00		
			54.00	57.00	492214	3.00		
			57.00	60.00	492215	3.00		
			60.00	63.00	492216	3.00		
			63.00	66.00	492217	3.00		
66.00	78.00	LBG LBG Very dark red water, massive haematite 85/15 bg. to red, (avg coarse-very coarse grained), low mag.	66.00	69.00	492218	3.00		
			69.00	72.00	492219	3.00		
			72.00	75.00	492220	3.00		
			75.00	78.00	492221	3.00		
78.00	123.00	LRC LRC Dark red water, 60/40 bg. to red (few coarse haaematite graines), ~15% white chert/q.zite, trace limonite, coarse to very coarse grined, low mag.	78.00	81.00	492222	3.00		
			81.00	84.00	492223	3.00		
			84.00	87.00	492224	3.00		
			87.00	90.00	492225	3.00		
			90.00	93.00	492227	3.00		

Description	Assay				
	From	To	Number	Length	Fe (%)
	93.00	96.00	492228	3.00	
	96.00	99.00	492229	3.00	
	99.00	102.00	492230	3.00	
	102.00	105.00	492231	3.00	
	105.00	108.00	492232	3.00	
	108.00	111.00	492233	3.00	
	111.00	114.00	492234	3.00	
	114.00	117.00	492235	3.00	
	117.00	120.00	492236	3.00	
	120.00	123.00	492238	3.00	
123.00	End of DDH Number of samples: 40 Number of QAQC samples: 5 Total sampled length: 120.00				

**LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE**

Hole No.: JOY-11-11

Licence No.: 013445M

Drilled by: Cabo

From: 5/6/2011

Section: 6S

Described by: S.Lahti

To: 11/6/2011

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 105.00 m

East	659,027.00
North	6,086,097.00
Elevation	507.38

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	105.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size:

Cemented: No

Stored: Yes

Description			Assay				
			From	To	Number	Length	Fe (%)
0.00	3.00	OB OB Overburden	0.00	3.00	492239	3.00	
3.00	12.00	UBG UBG Dark red water, 75/25 bg. to red (massive haematite), trace pink-orange chert, low mag., coarse to very coarse grained [dark blue-dark red]	3.00	6.00	492240	3.00	
			6.00	9.00	492241	3.00	
			9.00	12.00	492242	3.00	
12.00	87.00	RC RC Red water, 85% red/pink-white chert/q.zite to 15% bg., 60/40 red to pink-white, medium-coarse grained, moderate-good mag., (very coarse bg. grains) [high pink-white content]	12.00	15.00	492243	3.00	
			15.00	18.00	492244	3.00	
			18.00	21.00	492245	3.00	
			21.00	24.00	492246	3.00	
			24.00	27.00	492247	3.00	
			27.00	30.00	492248	3.00	
			30.00	33.00	492249	3.00	
			33.00	36.00	492250	3.00	
			36.00	39.00	492301	3.00	
			39.00	42.00	492302	3.00	
			42.00	45.00	492303	3.00	
			45.00	48.00	492304	3.00	
			48.00	51.00	492305	3.00	
			51.00	54.00	492306	3.00	
			54.00	57.00	492307	3.00	
			57.00	60.00	492308	3.00	
			60.00	63.00	492309	3.00	
			63.00	66.00	492310	3.00	
			66.00	69.00	492311	3.00	
			69.00	72.00	492313	3.00	
			72.00	75.00	492314	3.00	
			75.00	78.00	492315	3.00	
			78.00	81.00	492316	3.00	
			81.00	84.00	492318	3.00	
			84.00	87.00	492320	3.00	
87.00	105.00	LBG LBG Dark red water, 60/40 red to bg., overall fines grained (muddy at first) with erratic very coarse grains,	87.00	90.00	492321	3.00	
			90.00	93.00	492322	3.00	

Description	Assay				
	From	To	Number	Length	Fe (%)
very fines 50/50 red to bg. (haematite rich), high mag., 5-10% white quartz/chert/q.zite.	93.00	96.00	492323	3.00	
	96.00	99.00	492324	3.00	
	99.00	102.00	492325	3.00	
	102.00	105.00	492326	3.00	
105.00	End of DDH Number of samples: 35 Number of QAQC samples: 3 Total sampled length: 105.00				

**LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE**

Hole No.: JOY-11-12

Drilled by: Cabo

Described by: S.Lahti

Licence No.: 013445M (now 020238M)

From: 11/6/2011

To: 6/18/2011

Section: 0

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 156.00 m

East	658,457.00
North	6,086,406.00
Elevation	514.22

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	156.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size:

Cemented: No

Stored: Yes

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	78.00	UBG UBG Water brown. 70% mag HMT, blue-black. Fairly well sorted, most is medium. Remaining fragments show fine intergrowths of chert/HMT. 5% white quartz.	3.00	6.00	492327	3.00			
			6.00	9.00	492328	3.00			
			9.00	12.00	492329	3.00			
			12.00	15.00	492330	3.00			
			15.00	18.00	492331	3.00			
			18.00	21.00	492332	3.00			
			21.00	24.00	492333	3.00			
			24.00	27.00	492334	3.00			
			27.00	30.00	492335	3.00			
			30.00	33.00	492336	3.00			
			33.00	36.00	492338	3.00			
			36.00	39.00	492339	3.00			
			39.00	42.00	492340	3.00			
			42.00	45.00	492341	3.00			
			45.00	48.00	492343	3.00			
			48.00	51.00	492344	3.00			
			51.00	54.00	492345	3.00			
			54.00	57.00	492346	3.00			
			57.00	60.00	492347	3.00			
			60.00	63.00	492348	3.00			
			63.00	66.00	492349	3.00			
			66.00	69.00	492351	3.00			
			69.00	72.00	492352	3.00			
			72.00	75.00	492353	3.00			
			75.00	78.00	492354	3.00			
78.00	123.00	RC RC Vivid red-brown water. 50% HMT, fine-to-coarse. 20% soft red oxides in coarse, easily breakable chunks. Rest is red chert (fine) and cream-white quartz, fine-medium. Trace limonite.	78.00	81.00	492355	3.00			
			81.00	84.00	492356	3.00			
			84.00	87.00	492357	3.00			
			87.00	90.00	492358	3.00			
			90.00	93.00	492359	3.00			
			93.00	96.00	492360	3.00			

Description			Assay				
			From	To	Number	Length	Fe (%)
123.00	156.00	LBG LBG Vivid red-brown water. 40% med-coarse angular mag grey HMT. 20% soft red HMT. 20% pink-grey cherts. 20% coarse white quartz	96.00	99.00	492361	3.00	
			99.00	102.00	492363	3.00	
			102.00	105.00	492364	3.00	
			105.00	108.00	492365	3.00	
			108.00	111.00	492366	3.00	
			111.00	114.00	492367	3.00	
			114.00	117.00	492368	3.00	
			117.00	120.00	492369	3.00	
			120.00	123.00	492370	3.00	
			123.00	126.00	492371	3.00	
			126.00	129.00	492372	3.00	
			129.00	132.00	492373	3.00	
			132.00	135.00	492374	3.00	
			135.00	138.00	492377	3.00	
			138.00	141.00	492378	3.00	
			141.00	144.00	492379	3.00	
			144.00	147.00	492380	3.00	
			147.00	150.00	492381	3.00	
			150.00	153.00	492383	3.00	
			153.00	156.00	492384	3.00	
156.00	End of DDH Number of samples: 51 Number of QAQC samples: 7 Total sampled length: 153.00						

**LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE**

Hole No.: JOY-11-13

Licence No.: 013445M (now 020231M)

Drilled by: Cabo

From: 6/19/2011

Section: 0

Described by: M.Wellstead

To: 6/22/2011

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 105.00 m

East	658,579.00
North	6,086,491.00
Elevation	528.17

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	105.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size:

Cemented: No

Stored: Yes

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	39.00	UBG UBG Bright brown-orange water. 80% grey HMT. Some of this has a slightly but noticeably coarser crystalline fabric to it. Rest if a mix of red, white, cream cherts. High proportion of suspended very fine red HMT.	3.00	6.00	492385	3.00			
			6.00	9.00	492386	3.00			
			9.00	12.00	492388	3.00			
			12.00	15.00	492389	3.00			
			15.00	18.00	492390	3.00			
			18.00	21.00	492391	3.00			
			21.00	24.00	492392	3.00			
			24.00	27.00	492393	3.00			
			27.00	30.00	492394	3.00			
			30.00	33.00	492395	3.00			
			33.00	36.00	492396	3.00			
			36.00	39.00	492397	3.00			
39.00	90.00	RC RC Brown-orange water. 50% HMT, 20% limonite, 10% quartz. 20% soft red HMT. All fine-to-coarse, angular.	39.00	42.00	492398	3.00			
			42.00	45.00	492399	3.00			
			45.00	48.00	492402	3.00			
			48.00	51.00	492403	3.00			
			51.00	54.00	492404	3.00			
			54.00	57.00	492405	3.00			
			57.00	60.00	492406	3.00			
			60.00	63.00	492407	3.00			
			63.00	66.00	492408	3.00			
			66.00	69.00	492409	3.00			
			69.00	72.00	492410	3.00			
			72.00	75.00	492411	3.00			
			75.00	78.00	492413	3.00			
			78.00	81.00	492414	3.00			
			81.00	84.00	492415	3.00			
			84.00	87.00	492416	3.00			
			87.00	90.00	492417	3.00			
90.00	105.00	LRC LRC	90.00	93.00	492418	3.00			
			93.00	96.00	492419	3.00			

Description	Assay				
	From	To	Number	Length	Fe (%)
Brown-orange water. 30% grey HMT. 30% shale. Rest is quartz, yellow and pink chert.	96.00	99.00	492420	3.00	
	99.00	102.00	492421	3.00	
	102.00	105.00	492422	3.00	
105.00 End of DDH Number of samples: 34 Number of QAQC samples: 4 Total sampled length: 102.00					

**LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE**

Hole No.: JOY-11-14

Licence No.: 013445M (now 020238M)

Drilled by: Cabo

From: 6/23/2011

Section: 2N

Described by: S.Lahti

To: 6/25/2011

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 69.00 m

East	658,382.00
North	6,086,587.00
Elevation	527.79

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	69.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size:

Cemented: No

Stored: Yes

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	12.00	RC RC Light orange water, 60/15/15/10 red to bg. to wht-pink to yellow, similar to previous, very coarse grained, low mag. [trail mix look]	3.00	6.00	492423	3.00			
			6.00	9.00	492424	3.00			
			9.00	12.00	492426	3.00			
12.00	30.00	LBG LBG Dark red water, 80/20 bg. to red (haematite rich), coarse to very coarse grained, low mag. {50/50 bg. chert to haematite}, similar to previous .	12.00	15.00	492427	3.00			
			15.00	18.00	492428	3.00			
			18.00	21.00	492429	3.00			
			21.00	24.00	492430	3.00			
			24.00	27.00	492431	3.00			
			27.00	30.00	492432	3.00			
30.00	66.00	LRC LRC Dark red water, 70/30 red to bg., coarse to very coarse grained, moderate mag., trace limonite-wht/pink q.zite/chert- quartz, similar to previous	30.00	33.00	492433	3.00			
			33.00	36.00	492434	3.00			
			36.00	39.00	492435	3.00			
			39.00	42.00	492436	3.00			
			42.00	45.00	492438	3.00			
			45.00	48.00	492439	3.00			
			48.00	51.00	492440	3.00			
			51.00	54.00	492441	3.00			
			54.00	57.00	492443	3.00			
			57.00	60.00	492444	3.00			
			60.00	63.00	492445	3.00			
			63.00	66.00	492446	3.00			
66.00	69.00	Ruth Ruth Dark brown-black water, 90/10 bg. to rest (red, white, yellow), shale rich bg., fine grained, good mag.	66.00	69.00	492447	3.00			
69.00	End of DDH Number of samples: 22 Number of QAQC samples: 3 Total sampled length: 66.00								

**LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE**

Hole No.: JOY-11-15

Licence No.: 013445M

Drilled by: Cabo

From: 6/25/2011

Section: 2N

Described by: S.Lahti

To: 6/29/2011

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 147.00 m

East	658,117.00
North	6,086,316.00
Elevation	521.50

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	147.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size:

Cemented: No

Stored: Yes

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	81.00	RC RC Very dark red-brown water, 60/40 bg. to red, 40-50% very fine grained to rest fine-medium, 5-10% wht-pink q.zite-cherts, good mag. [muddy]	3.00	6.00	492448	3.00			
			6.00	9.00	492449	3.00			
			9.00	12.00	492451	3.00			
			12.00	15.00	492452	3.00			
			15.00	18.00	492453	3.00			
			18.00	21.00	492454	3.00			
			21.00	24.00	492455	3.00			
			24.00	27.00	492456	3.00			
			27.00	30.00	492457	3.00			
			30.00	33.00	492458	3.00			
			33.00	36.00	492459	3.00			
			39.00	42.00	492460	3.00			
			42.00	45.00	492461	3.00			
			45.00	48.00	492463	3.00			
			48.00	51.00	492464	3.00			
			51.00	54.00	492465	3.00			
			54.00	57.00	492466	3.00			
			57.00	60.00	492467	3.00			
			60.00	63.00	492468	3.00			
			63.00	66.00	492469	3.00			
			66.00	69.00	492470	3.00			
			69.00	72.00	492471	3.00			
			72.00	75.00	492472	3.00			
			75.00	78.00	492473	3.00			
			78.00	81.00	492474	3.00			
81.00	93.00	LBG LBG Dark red water, 50/50 bg. to red, very muddy, very fine to fine to minimal coarse grains, moderate mag.	81.00	84.00	492476	3.00			
			84.00	87.00	492477	3.00			
			87.00	90.00	492478	3.00			
			90.00	93.00	492479	3.00			
93.00	120.00	LRC LRC	93.00	96.00	492480	3.00			
			96.00	99.00	492481	3.00			

**LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE**

Hole No.: JOY-11-16

Drilled by: Cabo

Described by: S.Lahti

Licence No.: 013445M

From: 6/30/2011

To: 4/7/2011

Section: 0

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 123.00 m

East	658,188.00
North	6,086,096.00
Elevation	529.79

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	123.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size:

Cemented: No

Stored: Yes

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	2.00	OB OB Overburden							
2.00	12.00	LBG LBG Red water, 60/30/10 red to wht-pink to bg., coarse to very coarse grained, low mag.	2.00	3.00	492493	1.00			
			3.00	6.00	492494	3.00			
			6.00	9.00	492495	3.00			
			9.00	12.00	492496	3.00			
12.00	111.00	LRC LRC Dark red water, 50/30/20 red to bg. to dull-yellow-limonite, trace wht-pink q.zite-cherts, medium to very coarse grained, good mag.	12.00	15.00	492497	3.00			
			15.00	18.00	492498	3.00			
			18.00	21.00	492499	3.00			
			21.00	24.00	492501	3.00			
			24.00	27.00	492502	3.00			
			27.00	30.00	492503	3.00			
			30.00	33.00	492504	3.00			
			33.00	36.00	492505	3.00			
			36.00	39.00	492506	3.00			
			39.00	42.00	492507	3.00			
			42.00	45.00	492508	3.00			
			45.00	48.00	492509	3.00			
			48.00	51.00	492510	3.00			
			51.00	54.00	492511	3.00			
			54.00	57.00	492513	3.00			
			57.00	60.00	492514	3.00			
			60.00	63.00	492515	3.00			
			63.00	66.00	492516	3.00			
			66.00	69.00	492517	3.00			
			69.00	72.00	492518	3.00			
			72.00	75.00	492519	3.00			
			75.00	78.00	492520	3.00			
			78.00	81.00	492521	3.00			
			81.00	84.00	492522	3.00			
			84.00	87.00	492523	3.00			
			87.00	90.00	492524	3.00			
			90.00	93.00	492526	3.00			

Description			Assay				
			From	To	Number	Length	Fe (%)
111.00	123.00	Ruth Ruth Dark red-brown/slight black film water, 70/15/15 dull purple-red to limonite to bg. (root/blue-grey shale), medium to very coarse grained, low mag.	93.00	96.00	492527	3.00	
			96.00	99.00	492528	3.00	
			99.00	102.00	492529	3.00	
			102.00	105.00	492530	3.00	
			105.00	108.00	492531	3.00	
			108.00	111.00	492532	3.00	
			111.00	114.00	492533	3.00	
			114.00	117.00	492534	3.00	
			117.00	120.00	492535	3.00	
			123.00	End of DDH Number of samples: 40 Number of QAQC samples: 4 Total sampled length: 118.00			

**LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE**

Hole No.: JOY-11-17

Licence No.: 013445M

Drilled by: Cabo

From: 6/7/2011

Section: 2S

Described by: S.Lahti

To: 10/7/2011

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 99.00 m

East	658,332.00
North	6,085,968.00
Elevation	530.48

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	99.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size:

Cemented: No

Stored: Yes

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	12.00	UBG UBG Dark red water, 70/20/10 red-purple to bg. to wht-pink, fine-medium to coarse to grained, good mag.	3.00	6.00	492538	3.00			
			6.00	9.00	492539	3.00			
			9.00	12.00	492540	3.00			
12.00	21.00	RC RC Yellow-orange water, 60% limonite, 20% red-purple, 10/10 wht-pink and bg., trace clear quartz, very fine-fine to coarse-very coarse grained, low mag.	12.00	15.00	492541	3.00			
			15.00	18.00	492543	3.00			
			18.00	21.00	492544	3.00			
21.00	66.00	LBG LBG Red water, 60/40 bg. (haematite rich) to pink-white q.zite, trace red, fine to coarse grained, moderate mag.	21.00	24.00	492545	3.00			
			24.00	27.00	492546	3.00			
			27.00	30.00	492547	3.00			
			30.00	33.00	492548	3.00			
			33.00	36.00	492549	3.00			
			36.00	39.00	492551	3.00			
			39.00	42.00	492552	3.00			
			42.00	45.00	492553	3.00			
			45.00	48.00	492554	3.00			
			48.00	51.00	492555	3.00			
			51.00	54.00	492556	3.00			
			54.00	57.00	492557	3.00			
			57.00	60.00	492558	3.00			
			60.00	63.00	492559	3.00			
			63.00	66.00	492560	3.00			
66.00	99.00	LRC LRC Dark red water, {very muddy} 60/30/10 wht-pink to bg. to red, very fine to fine grained, 30% coarse, low mag., trace limonite.	66.00	69.00	492561	3.00			
			69.00	72.00	492563	3.00			
			72.00	75.00	492564	3.00			
			75.00	78.00	492565	3.00			
			78.00	81.00	492566	3.00			
			81.00	84.00	492567	3.00			
			84.00	87.00	492568	3.00			
			87.00	90.00	492569	3.00			
			90.00	93.00	492570	3.00			

Description	Assay				
	From	To	Number	Length	Fe (%)
	93.00	96.00	492571	3.00	
	96.00	99.00	492572	3.00	
99.00	End of DDH Number of samples: 32 Number of QAQC samples: 3 Total sampled length: 96.00				

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	1.00	OB OB Overburden							
1.00	6.00	UBG UBG Dark brown water, 70/30 red to bg., coarse to very coarse grained, low mag.	1.00	3.00	492573	2.00			
			3.00	6.00	492574	3.00			
6.00	48.00	RC RC Very dark red-brown water, 80/20 bg. (massive haematite) to bright red chert, fine ot coarse grained, high mag.	6.00	9.00	492575	3.00			
			9.00	12.00	492576	3.00			
			12.00	15.00	492578	3.00			
			15.00	18.00	492579	3.00			
			18.00	21.00	492580	3.00			
			21.00	24.00	492581	3.00			
			24.00	27.00	492582	3.00			
			27.00	30.00	492583	3.00			
			30.00	33.00	492584	3.00			
			33.00	36.00	492585	3.00			
			36.00	39.00	492586	3.00			
			39.00	42.00	492588	3.00			
			42.00	45.00	492589	3.00			
			45.00	48.00	492590	3.00			
48.00	75.00	LBG LBG Dark purple water, 80/20 bg. haematite to purple-red chert, very fine to very coarse grained, moderate to good mag.	48.00	51.00	492591	3.00			
			51.00	54.00	492593	3.00			
			54.00	57.00	492594	3.00			
			57.00	60.00	492595	3.00			
			60.00	63.00	492596	3.00			
			63.00	66.00	492597	3.00			
			66.00	69.00	492598	3.00			
			69.00	72.00	492599	3.00			
			72.00	75.00	492601	3.00			
75.00	102.00	LRC LRC Purple water. 60/40 HMT / red chert. Good mag.	75.00	78.00	492602	3.00			
			78.00	81.00	492603	3.00			
			81.00	84.00	492604	3.00			
			84.00	87.00	492605	3.00			
			87.00	90.00	492606	3.00			

Description			Assay				
			From	To	Number	Length	Fe (%)
102.00	114.00	Ruth Ruth Grey-black water. 85% HMT, coarse, weak mag. 5% red chert.	90.00	93.00	492608	3.00	
			93.00	96.00	492609	3.00	
			96.00	99.00	492610	3.00	
			99.00	102.00	492611	3.00	
			102.00	105.00	492613	3.00	
			105.00	108.00	492614	3.00	
			108.00	111.00	492615	3.00	
			111.00	114.00	492616	3.00	
			111.00	End of DDH Number of samples: 38 Number of QAQC samples: 6 Total sampled length: 113.00			

**LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE**

Hole No.: JOY-11-19

Licence No.: 013445M (now 020231M)

Drilled by: Cabo

From: 7/16/2011

Section: 6S

Described by: M.Wellstead

To: 7/25/2011

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 146.00 m

East	658,625.00
North	6,085,674.00
Elevation	541.53

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	146.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size:

Cemented: No

Stored: Yes

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	21.00	UBG UBG Yellow water. 60% limonite, 10% HMT, 30% red-brown chert/silicate.	3.00	6.00	492617	3.00			
			6.00	9.00	492618	3.00			
			9.00	12.00	492619	3.00			
			12.00	15.00	492620	3.00			
			15.00	18.00	492621	3.00			
			18.00	21.00	492622	3.00			
21.00	90.00	RC RC Brown water. 60% fine limonite, 40% lo-mag greys.	21.00	24.00	492623	3.00			
			24.00	27.00	492624	3.00			
			27.00	30.00	492626	3.00			
			30.00	33.00	492627	3.00			
			33.00	36.00	492628	3.00			
			36.00	39.00	492629	3.00			
			39.00	42.00	492630	3.00			
			42.00	45.00	492631	3.00			
			45.00	48.00	492632	3.00			
			48.00	51.00	492633	3.00			
			51.00	54.00	492634	3.00			
			54.00	57.00	492635	3.00			
			57.00	60.00	492636	3.00			
			60.00	63.00	492638	3.00			
			63.00	66.00	492639	3.00			
			66.00	69.00	492640	3.00			
			69.00	72.00	492641	3.00			
			72.00	75.00	492642	3.00			
			75.00	78.00	492643	3.00			
			78.00	81.00	492644	3.00			
			81.00	84.00	492645	3.00			
			84.00	87.00	492646	3.00			
			87.00	90.00	492647	3.00			
90.00	147.00	LBG LBG	90.00	93.00	492648	3.00			
			93.00	96.00	492649	3.00			

Description	Assay					
	From	To	Number	Length	Fe (%)	
Yellow-brown water. 60% mag grey HMT. 30% limonite. 10% reds. All fine to very coarse	96.00	99.00	492651	3.00		
	99.00	102.00	492652	3.00		
	102.00	105.00	492653	3.00		
	105.00	108.00	492654	3.00		
	108.00	111.00	492655	3.00		
	111.00	114.00	492656	3.00		
	114.00	117.00	492657	3.00		
	117.00	120.00	492658	3.00		
	120.00	123.00	492659	3.00		
	123.00	126.00	492660	3.00		
	126.00	129.00	492661	3.00		
	129.00	132.00	492663	3.00		
	132.00	135.00	492664	3.00		
	135.00	138.00	492665	3.00		
	138.00	141.00	492666	3.00		
	141.00	144.00	492668	3.00		
	144.00	147.00	492669	3.00		
	146.00	End of DDH Number of samples: 48 Number of QAQC samples: 5 Total sampled length: 144.00				

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	6.00	OB OB Overburden							
6.00	69.00	UBG UBG Very dark red water, 60/40 bg. haematite to bright red chert, trace wht-pink q.zite, coarse to very coarse grained, good mag.	6.00	9.00	492670	3.00			
			9.00	12.00	492671	3.00			
			12.00	15.00	492672	3.00			
			15.00	18.00	492673	3.00			
			18.00	21.00	492674	3.00			
			21.00	24.00	492676	3.00			
			24.00	27.00	492677	3.00			
			27.00	30.00	492678	3.00			
			30.00	33.00	492679	3.00			
			33.00	36.00	492680	3.00			
			36.00	39.00	492681	3.00			
			39.00	42.00	492682	3.00			
			42.00	45.00	492683	3.00			
			45.00	48.00	492684	3.00			
			48.00	51.00	492685	3.00			
			51.00	54.00	492686	3.00			
			54.00	57.00	492688	3.00			
			57.00	60.00	492689	3.00			
			60.00	63.00	492690	3.00			
			63.00	66.00	492691	3.00			
			66.00	69.00	492692	3.00			
69.00	78.00	RC RC Very dark red water, 80% dull red chert, 20% bg. haematite/wht-pink q.zite/chert, very fine to fine grained, good mag.	69.00	72.00	492693	3.00			
			72.00	75.00	492694	3.00			
			75.00	78.00	492695	3.00			
78.00	142.00	LBG LBG Dark red-purple water, 70/30 bg. haematite to bright red chert, very fine to fine grained, good mag.	78.00	81.00	492696	3.00			
			81.00	84.00	492697	3.00			
			84.00	87.00	492698	3.00			
			87.00	90.00	492699	3.00			
			90.00	93.00	492701	3.00			
			93.00	96.00	492702	3.00			

Description	Assay				
	From	To	Number	Length	Fe (%)
	96.00	99.00	492703	3.00	
	99.00	102.00	492704	3.00	
	102.00	105.00	492705	3.00	
	105.00	108.00	492706	3.00	
	108.00	111.00	492708	3.00	
	111.00	114.00	492709	3.00	
	114.00	117.00	492710	3.00	
	117.00	120.00	492711	3.00	
	120.00	123.00	492713	3.00	
	123.00	126.00	492714	3.00	
	126.00	129.00	492715	3.00	
	129.00	132.00	492716	3.00	
	132.00	135.00	492717	3.00	
	135.00	138.00	492718	3.00	
	138.00	141.00	492719	3.00	
	141.00	142.00	492720	1.00	
142.00	End of DDH Number of samples: 46 Number of QAQC samples: 4 Total sampled length: 136.00				

**LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE**

Hole No.: JOY-11-21

Licence No.: 013445M

Drilled by: Cabo

From: 2/8/2011

Section: 10S

Described by: S.Lahti

To: 11/8/2011

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 117.00 m

East	658,925.00
North	6,085,434.00
Elevation	517.00

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	117.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size:

Cemented: No

Stored: Yes

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	117.00	UBG UBG Dark purple water, 75/25 bg. haematite to bright red chert, fine to coarse grained, good mag.	3.00	6.00	492721	3.00			
			6.00	9.00	492722	3.00			
			9.00	12.00	492723	3.00			
			12.00	15.00	492724	3.00			
			15.00	18.00	492726	3.00			
			18.00	21.00	492727	3.00			
			21.00	24.00	492728	3.00			
			24.00	27.00	492729	3.00			
			27.00	30.00	492730	3.00			
			30.00	33.00	492731	3.00			
			33.00	36.00	492732	3.00			
			36.00	39.00	492733	3.00			
			39.00	42.00	492734	3.00			
			42.00	45.00	492735	3.00			
			45.00	48.00	492736	3.00			
			48.00	51.00	492738	3.00			
			51.00	54.00	492739	3.00			
			54.00	57.00	492740	3.00			
			57.00	60.00	492741	3.00			
			60.00	63.00	492742	3.00			
			63.00	66.00	492743	3.00			
			66.00	69.00	492744	3.00			
			69.00	72.00	492745	3.00			
			72.00	75.00	492746	3.00			
			75.00	78.00	492747	3.00			
			78.00	81.00	492748	3.00			
			81.00	84.00	492749	3.00			
			84.00	87.00	501001	3.00			
			87.00	90.00	501002	3.00			
			90.00	93.00	501003	3.00			
			93.00	96.00	501004	3.00			

Description	Assay				
	From	To	Number	Length	Fe (%)
	96.00	99.00	501005	3.00	
	99.00	102.00	501006	3.00	
	102.00	105.00	501007	3.00	
	105.00	108.00	501008	3.00	
	108.00	111.00	501009	3.00	
	111.00	114.00	501010	3.00	
	114.00	117.00	501011	3.00	
117.00	End of DDH Number of samples: 38 Number of QAQC samples: 4 Total sampled length: 114.00				

Description			Assay					
			From	To	Number	Length	Fe (%)	
0.00	6.00	OB OB Overburden						
6.00	13.70	MSS MSS Black-grey striped shale "Barcode", alternating black and grey banding. Down dip---> ~80-90° in areas (locally) (@ 9m, 10m and 12.5m)						
13.70	144.00	MSS MSS Massive black shale (heavy chipping), 20cm pyritic lense @ 31-31.5m, slight grey banding 36-39.5m @ 75 degrees, grey banding 87-90 @ 70 degrees/ 96 to end locally occuring throughout @ -60-70 degrees, vuggy/pyritic viens occurrence throughtout local,Seam 128-129 meters						
144.00	End of DDH Number of samples: 0 Number of QAQC samples: 0 Total sampled length: 0.00							

Assay

From	To	Number	Length	SiO ₂ (%)	Al ₂ O ₃ (%)	Fe (%)	MnO (%)	MgO (%)	CaO (%)	Na ₂ O (%)	K ₂ O (%)	TiO ₂ (%)	P ₂ O ₅ (%)	Cr ₂ O ₃ (%)	V ₂ O ₅ (%)	LOI (%)	Total (%)	C _{total} (%)	S _{total} (%)

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	2.00	OB OB Overburden							
2.00	33.00	RC RC Dark red water, 70/30 red to bg. haeamtite, 10% wht-pink q.zite-chert, trace quartz, fine to coarse grained, good mag.	2.00	3.00	501013	1.00			
			3.00	6.00	501014	3.00			
			6.00	9.00	501015	3.00			
			9.00	12.00	501016	3.00			
			12.00	15.00	501018	3.00			
			15.00	18.00	501019	3.00			
			18.00	21.00	501020	3.00			
			21.00	24.00	501021	3.00			
			24.00	27.00	501022	3.00			
			27.00	30.00	501023	3.00			
			30.00	33.00	501024	3.00			
33.00	114.00	LBG LBG Dark red water, 70/30 dull red to bg. haematite, fine to coarse grained, good mag. (abundant very fine reds)	33.00	36.00	501025	3.00			
			36.00	39.00	501027	3.00			
			39.00	42.00	501028	3.00			
			42.00	45.00	501029	3.00			
			45.00	48.00	501030	3.00			
			48.00	51.00	501031	3.00			
			51.00	54.00	501032	3.00			
			54.00	57.00	501033	3.00			
			57.00	60.00	501034	3.00			
			60.00	63.00	501035	3.00			
			63.00	66.00	501036	3.00			
			66.00	69.00	501038	3.00			
			69.00	72.00	501039	3.00			
			72.00	75.00	501040	3.00			
			75.00	78.00	501041	3.00			
			78.00	81.00	501042	3.00			
			81.00	84.00	501043	3.00			
			84.00	87.00	501044	3.00			
			87.00	90.00	501045	3.00			
			90.00	93.00	501046	3.00			

Description			Assay							
			From	To	Number	Length	Fe (%)			
114.00	129.00	LRC LRC Dark red water, 50/30/20 dull red to bg.(haematite/chert) to mix of limonite and wht-grey chert, fine to coarse grained, moderate mag.	93.00	96.00	501047	3.00				
			96.00	99.00	501048	3.00				
			99.00	102.00	501049	3.00				
			102.00	105.00	501050	3.00				
			105.00	108.00	501052	3.00				
			108.00	111.00	501053	3.00				
			111.00	114.00	501054	3.00				
			114.00	117.00	501055	3.00				
			117.00	120.00	501056	3.00				
			120.00	123.00	501058	3.00				
			123.00	126.00	501059	3.00				
			126.00	129.00	501060	3.00				
			129.00	135.00	Ruth Ruth Dark brown water, black ruth shale present ~20%, grey/bg. chert/shale ~40-60%, dull red-purple ~40%, trace limonite, fine to coarse grained, low mag.	129.00	132.00	501061	3.00	
						132.00	135.00	501063	3.00	
138.00	End of DDH Number of samples: 45 Number of QAQC samples: 6 Total sampled length: 133.00									

Description			Assay					
			From	To	Number	Length	Fe (%)	
0.00	6.00	OB OB Overburden						
6.00	10.80	JUIF JUIF White Pink Quartzite, broken up in rubble form, low RQD						
10.80	42.00	JUIF JUIF Blue White Pink- Chert/Quartzite (DSO-Massive Haematite), mix of quartzite and haematite, massive in areas (haematite), low RQD aka very rubble heavy (6.5m from 6 to 25m)						
42.00	49.00	JUIF JUIF Red White- Quartzite/Chert (DSO- Massive Haematite), Overall red/white chert and haematite banding, section of massive haematite present as well, 45 degrees throughout						
49.00	61.00	JUIF JUIF Limonite- Highly Oxidized Zone with Red White Chert and DSO, heavy yellow weathered appearance (limonite), 45 degree angle, very low RQD (rubble). Red White Chert still present throughout (speckled look), lower haematite present						
61.00	85.40	JUIF JUIF Red White- Quartzite/Chert with DSO- Haematite, large banded sections of haematite (20cm bands), 45 degree angle throughout, low RQD (still very rubbly/broken up), 67 to 68 meters white Quartzite, Red White Chert speckled look, 82.5 to 85 meters heavily quartzite rich, @85m 45 degrees						
86.00	End of DDH Number of samples: 0 Number of QAQC samples: 0 Total sampled length: 0.00							

Assay

From	To	Number	Length	SiO ₂ (%)	Al ₂ O ₃ (%)	Fe (%)	MnO (%)	MgO (%)	CaO (%)	Na ₂ O (%)	K ₂ O (%)	TiO ₂ (%)	P ₂ O ₅ (%)	Cr ₂ O ₃ (%)	V ₂ O ₅ (%)	LOI (%)	Total (%)	C _{total} (%)	S _{total} (%)

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	13.70	OB OB Overburden							
13.70	14.50	LC LC heavily broken up, poor RQD, quartzite-cherty rich (white), visible haematite bands (BLUE)							
14.50	44.20	LC LC Enriched Haematite Zone: 14.5 to 17.5m oxidized leached, high haematite %, down dip apparent through the interval with local 45-60 degree dips, highly banded and disseminated throughout (prominant blur colour), speckled red white chert matrix, seams located @ 33.2 to 35, 45 to 47, 48 to 50, 53 to 53.5, 59.8 to 62, 63.2 to 65, 75.7 to 77m, poor RQD, rubbly/broken up [overall banded/disseminated (massive) with red/white matrix, brecciateion occuring minorly local of jasper/red/white chert, zone ends right before a seam]	14.50	17.50	501271	3.00			
			17.50	20.50	501272	3.00			
			20.50	23.00	501273	2.50			
			23.00	26.00	501274	3.00			
			26.00	29.00	501275	3.00			
			29.00	33.20	501276	4.20			
			35.00	38.70	501278	3.70			
			41.00	48.00	501279	7.00			
44.20	59.20	JUIF JUIF Limonite-RW chert/ with Haematite: heavily weathered section of limonite alteration, very yellow in colour, has RW cherty/q.zite with dissminated and banded haematite	50.00	56.00	501280	6.00			
			56.00	59.70	501281	3.70			
59.20	104.00	JUIF JUIF RW Cherty-Quartzite , with banded/disseminated haematite: banded white quartzite/chert and red chert (50/50), lower in haematite, sporadic in areas of thin bands to thinks to blebs, low RQD (rubbly), shows erratic veining locally of haematite, leached sections exist but not as definite as the previous LRW had (trace limonite), dip verys from 45 to 60 and downdip, local grey chert/quartz?, carbonate pods/blebs/pock marks are usually associated with iron oxide bands	62.00	68.00	501282	6.00			
			68.00	71.00	501283	3.00			
			71.00	74.00	501284	3.00			
			74.00	78.00	501285	4.00			
			78.00	81.50	501287	3.50			
			81.50	86.00	501288	4.50			
			86.00	89.50	501289	3.50			
			89.50	93.00	501290	3.50			
			93.00	98.00	501291	5.00			
			98.00	101.00	501292	3.00			
			101.00	104.00	501293	3.00			
104.00	197.00	URC URC Blue-Red Eniriched Haematite Zone, jasper rich: massive blue haematite/red chert matrix, haematite banding in dull red>white, very minimal white (45/45/10 b/r/w), very low RQD with dip varying from 55 degrees to downdip locally, around 110m looks like the start of steep down dip ~80 degrees, from 146 to 158.5 pick up in brecciated jasper with the banding, occasional 10-50cm white q.zite sections (white	104.00	110.00	501295	6.00			
			110.00	116.00	501296	6.00			
			116.00	119.00	501297	3.00			
			119.00	122.00	501298	3.00			
			122.00	125.00	501299	3.00			

Description			Assay				
			From	To	Number	Length	Fe (%)
with haematite 50/50) from 132 to 137m, from 128 to 128.5m cm size brecciated white-pink in the haematite(massive), still down dip @161m, haeamtitite content becoming more up to 185m (>70%), elongated brecciation @166m, 172 to 172.4 limonite			125.00	128.00	501300	3.00	
			128.00	131.50	501301	3.50	
			131.50	135.00	501302	3.50	
			135.00	138.00	501303	3.00	
			138.00	143.00	501304	5.00	
			143.00	146.00	501305	3.00	
			146.00	149.00	501306	3.00	
			149.00	152.00	501307	3.00	
			152.00	158.00	501309	6.00	
			158.00	164.00	501310	6.00	
			164.00	167.00	501311	3.00	
			167.00	173.00	501312	6.00	
			173.00	176.00	501313	3.00	
			176.00	179.00	501314	3.00	
			179.00	182.00	501315	3.00	
			182.00	185.00	501316	3.00	
			185.00	188.00	501317	3.00	
			188.00	194.00	501318	6.00	
			194.00	197.00	501319	3.00	
	197.00	242.00	PGC	197.00	200.00	501320	3.00
		PGC	200.00	203.00	501321	3.00	
		down dip, 20 to 30 cm section of each sub gorup, up to 203 to 210.5m very haematite rich BRE unit red> white content	203.00	206.00	501323	3.00	
			206.00	209.00	501324	3.00	
			209.00	212.00	501325	3.00	
			212.00	215.00	501326	3.00	
			215.00	218.00	501327	3.00	
			218.00	221.00	501328	3.00	
			221.00	224.00	501329	3.00	
			224.00	227.00	501330	3.00	
			227.00	230.00	501331	3.00	
			230.00	233.00	501333	3.00	
			233.00	236.00	501334	3.00	
			236.00	239.00	501335	3.00	

Description			Assay				
			From	To	Number	Length	Fe (%)
242.00	248.00	LIF	239.00	242.00	501336	3.00	
		LIF	242.00	245.00	501338	3.00	
		blue and red solid with red/white sections	245.00	248.00	501339	3.00	
248.00	End of DDH Number of samples: 62 Number of QAQC samples: 7 Total sampled length: 225.10						

Description			Assay					
			From	To	Number	Length	Fe (%)	
0.00	3.00	OB OB Overburden						
3.00	27.00	UBG UBG Dark red-purple water, 50% dull red to 50% mix of bg. haematite (some cherty) and wht-clear quartz and minimal limonite, wht-pink chert-q.zite ~10%, fine to very coarse grained, low mag.	3.00	6.00	501064	3.00		
			6.00	9.00	501065	3.00		
			9.00	12.00	501066	3.00		
			12.00	15.00	501067	3.00		
			15.00	18.00	501068	3.00		
			18.00	21.00	501069	3.00		
			21.00	24.00	501070	3.00		
			24.00	27.00	501071	3.00		
27.00	39.00	LRC LRC Dark red water, 70/20/10 dull red to bg. cherty to white quartzite, angular grains very fine to very coarse, moderate mag.	27.00	30.00	501072	3.00		
			30.00	33.00	501073	3.00		
			33.00	36.00	501074	3.00		
			36.00	39.00	501076	3.00		
39.00	60.00	Ruth Ruth Ruth shale, 90% with grey shale, might have trace amounts of limonite and quartz (low amounts), low mag, very fine to very coarse grained						
60.00	End of DDH Number of samples: 12 Number of QAQC samples: 1 Total sampled length: 36.00							

LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE

Hole No.: JOY-11-26

Drilled by: Cabo

Described by: S.Lahti

Licence No.: 013445M

From: 8/17/2011

To: 8/24/2011

Section: 2N

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 153.00 m

East	658,259.00
North	6,086,459.00
Elevation	528.85

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	153.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid
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Description

Core size: NQ Cemented: No Stored: Yes

Description			Assay				
			From	To	Number	Length	Fe (%)
0.00	12.00	UBG UBG Purple water, 85% Massive Haematite to bright red chert, very fine to very coarse grained, high mag., trace limonite and quartz	0.00	3.00	501077	3.00	
			3.00	6.00	501078	3.00	
			6.00	9.00	501079	3.00	
			9.00	12.00	501080	3.00	
12.00	54.00	RC RC Red water, 50/20/15/15 dull red to bg. haematite to limonite to milky quartz/white chert, trace bg. chert, very fine to very coarse grained	12.00	15.00	501081	3.00	
			15.00	18.00	501082	3.00	
			18.00	21.00	501083	3.00	
			21.00	24.00	501084	3.00	
			24.00	27.00	501085	3.00	
			27.00	30.00	501086	3.00	
			30.00	33.00	501088	3.00	
			33.00	36.00	501089	3.00	
			36.00	39.00	501090	3.00	
			39.00	42.00	501091	3.00	
			42.00	45.00	501092	3.00	
			45.00	48.00	501093	3.00	
			48.00	51.00	501094	3.00	
			51.00	54.00	501095	3.00	
54.00	96.00	LBG LBG very dark red water, very muddy, 50% dull red to 25% white cherty to 15% haematite to 10 limonite, very fine to coarse grained, moderate mag.	54.00	57.00	501096	3.00	
			57.00	60.00	501097	3.00	
			60.00	63.00	501098	3.00	
			63.00	66.00	501099	3.00	
			66.00	69.00	501101	3.00	
			69.00	72.00	501102	3.00	
			72.00	75.00	501103	3.00	
			75.00	78.00	501104	3.00	
			78.00	81.00	501105	3.00	
			81.00	84.00	501106	3.00	
			84.00	87.00	501108	3.00	
			87.00	90.00	501109	3.00	
			90.00	93.00	501110	3.00	
			93.00	96.00	501111	3.00	
96.00	99.00	501113	3.00				

Description			Assay				
			From	To	Number	Length	Fe (%)
		LRC very dark red water, 65/35 dull red to bg. haematite/cherty, trace grey-white chert and quartz, coarse grained, moderate mag.	99.00	102.00	501114	3.00	
			102.00	105.00	501115	3.00	
			105.00	108.00	501116	3.00	
			108.00	111.00	501117	3.00	
			111.00	114.00	501118	3.00	
			114.00	117.00	501119	3.00	
			117.00	120.00	501120	3.00	
			120.00	123.00	501121	3.00	
			123.00	126.00	501122	3.00	
			126.00	129.00	501123	3.00	
			129.00	132.00	501124	3.00	
			132.00	135.00	501126	3.00	
			135.00	138.00	501127	3.00	
			138.00	141.00	501128	3.00	
141.00	153.00	Ruth Ruth very dark red water, 40 dull red to 30/30 cherty/shale to white-pink (speckly rough sandpaper look) q.zite, trace limonite, fine to coarse grained, good mag.	141.00	144.00	501129	3.00	
			144.00	147.00	501130	3.00	
153.00	End of DDH Number of samples: 49 Number of QAQC samples: 5 Total sampled length: 147.00						

LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE

Hole No.: **JOY-11-27**

Licence No.: 013445M

Drilled by: Cabo

From: 8/24/2011

Section: 3N

Described by: S.Lahti

To: 8/28/2011

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 120.00 m

East	658,179.00
North	6,086,523.00
Elevation	533.84

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	0.00	0.0°	-90.0°	No
None	0.00	0.0°	-90.0°	No
None	120.00	0.0°	-90.0°	No
None	120.00	0.0°	-90.0°	No
None	120.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size: RC Cemented: No Stored: Yes

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	42.00	RC RC red water, 30/50/20 bg. haematite to dull red to white chert/limonite, fine to coarse grained, moderate mag.	3.00	6.00	501131	3.00			
			6.00	9.00	501132	3.00			
			9.00	12.00	501133	3.00			
			12.00	15.00	501134	3.00			
			15.00	18.00	501135	3.00			
			18.00	21.00	501136	3.00			
			21.00	24.00	501138	3.00			
			24.00	27.00	501139	3.00			
			27.00	30.00	501140	3.00			
			30.00	33.00	501141	3.00			
			33.00	36.00	501142	3.00			
			36.00	39.00	501143	3.00			
			39.00	42.00	501144	3.00			
42.00	75.00	LBG LBG very dark red water, 60/40 dull red to bg. cherty, trace limonite and white chert, fine to coarse grained, moderate mag.	42.00	45.00	501145	3.00			
			45.00	48.00	501146	3.00			
			48.00	51.00	501147	3.00			
			51.00	54.00	501148	3.00			
			54.00	57.00	501149	3.00			
			57.00	60.00	501151	3.00			
			60.00	63.00	501152	3.00			
			63.00	66.00	501153	3.00			
			66.00	69.00	501154	3.00			
			69.00	72.00	501155	3.00			
			72.00	75.00	501156	3.00			
75.00	99.00	LRC LRC brown water, 80 bg. cherty haematite, 10 black shale, 10 dull red-purple, very fine to very coarse grained, low mag.	75.00	78.00	501157	3.00			
			78.00	81.00	501158	3.00			
			81.00	84.00	501159	3.00			
			84.00	87.00	501160	3.00			
			87.00	90.00	501161	3.00			
			90.00	93.00	501163	3.00			
			93.00	96.00	501164	3.00			

Description			Assay				
			From	To	Number	Length	Fe (%)
99.00	120.00	Ruth Ruth Dark green/black water, 80 ruth shale 20 bg. cherty , 50% very fine dark brown-grey matrix to 50% coarse, low mag	96.00	99.00	501165	3.00	
			99.00	102.00	501166	3.00	
			102.00	105.00	501168	3.00	
120.00	End of DDH Number of samples: 34 Number of QAQC samples: 4 Total sampled length: 102.00						

**LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE**

Hole No.: JOY-11-28

Drilled by: Cabo

Described by: F.Milanes

Licence No.: 013445M

From: 8/28/2011

To: 3/9/2011

Section: 1N

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 162.00 m

East	658,326.00
North	6,086,384.00
Elevation	518.06

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	162.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size: NQ

Cemented: No

Stored: Yes

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	33.00	UBG UBG dark red water; mixed bluish-grey and deep red fragments (60/40); bluish grey frags coarser than red; no qtz; fine magnetites	3.00	6.00	501169	3.00			
			6.00	9.00	501170	3.00			
			9.00	12.00	501171	3.00			
			12.00	15.00	501172	3.00			
			15.00	18.00	501173	3.00			
			18.00	21.00	501174	3.00			
			21.00	24.00	501175	3.00			
			24.00	27.00	501177	3.00			
			27.00	30.00	501178	3.00			
			30.00	33.00	501179	3.00			
33.00	105.00	RC RC mixed fine to med size fragments of deep red (hematites?) and gray materials (70/30); good amount of fine to clay size hematites; 1%qtz	33.00	36.00	501180	3.00			
			36.00	39.00	501181	3.00			
			39.00	42.00	501182	3.00			
			42.00	45.00	501183	3.00			
			45.00	48.00	501184	3.00			
			48.00	51.00	501185	3.00			
			51.00	54.00	501186	3.00			
			54.00	57.00	501188	3.00			
			57.00	60.00	501189	3.00			
			60.00	63.00	501190	3.00			
			63.00	66.00	501191	3.00			
			66.00	69.00	501192	3.00			
			69.00	72.00	501193	3.00			
			72.00	75.00	501194	3.00			
			75.00	78.00	501195	3.00			
			78.00	81.00	501196	3.00			
			81.00	84.00	501197	3.00			
			84.00	87.00	501198	3.00			
			87.00	90.00	501199	3.00			
			90.00	93.00	501200	3.00			
			93.00	96.00	501202	3.00			

Description			Assay				
			From	To	Number	Length	Fe (%)
105.00	153.00	LBG LBG dark brownish-red water; mixed deep red, gray, pinkish-white & white fragments (50/30/15/5); generally fine to med-fine grains; fine magnetites; high clay size hematite content	96.00	99.00	501203	3.00	
			99.00	102.00	501204	3.00	
			102.00	105.00	501205	3.00	
			105.00	108.00	501206	3.00	
			108.00	111.00	501208	3.00	
			111.00	114.00	501209	3.00	
			114.00	117.00	501210	3.00	
			117.00	120.00	501211	3.00	
			120.00	123.00	501213	3.00	
			123.00	126.00	501214	3.00	
			126.00	129.00	501215	3.00	
			129.00	132.00	501216	3.00	
			132.00	135.00	501217	3.00	
			135.00	138.00	501218	3.00	
			138.00	141.00	501219	3.00	
			141.00	144.00	501220	3.00	
			153.00	162.00	Ruth Ruth dark brownish-red water; mixed deep red, gray & white frag (90/8/2) fine to med-coarse grains; equigranular; <10% clay size particles	144.00	147.00
147.00	150.00	501222				3.00	
150.00	153.00	501223				3.00	
153.00	156.00	501224				3.00	
156.00	159.00	501225				3.00	
162.00	End of DDH Number of samples: 52 Number of QAQC samples: 6 Total sampled length: 156.00						

Description			Assay					
			From	To	Number	Length	Fe (%)	
0.00	103.00	MSS MSS (add)						
103.00	End of DDH Number of samples: 0 Number of QAQC samples: 0 Total sampled length: 0.00							

Assay

From	To	Number	Length	SiO ₂ (%)	Al ₂ O ₃ (%)	Fe (%)	MnO (%)	MgO (%)	CaO (%)	Na ₂ O (%)	K ₂ O (%)	TiO ₂ (%)	P ₂ O ₅ (%)	Cr ₂ O ₃ (%)	V ₂ O ₅ (%)	LOI (%)	Total (%)	C _{total} (%)	S _{total} (%)	

Description			Assay					
			From	To	Number	Length	Fe (%)	
0.00	16.00	OB OB Overburden						
16.00	28.00	PGC PGC	16.00	22.00	501351	6.00		
		White-grey to pinkish rocks; very poor recovery; frequent yellow staining indicating limonitic content; medium quartzite grains w/ hematite throughout, increasing towards bottom of unit.	22.00	28.00	501352	6.00		
28.00	57.00	URC URC	28.00	34.00	501353	6.00		
		Thick banded dark grey and brown stained rock; hematite and stained quartzite; Evidence of yellow limonitic staining; very poor rock strength esp between 37-43m.	34.00	37.00	501354	3.00		
			37.00	43.00	501355	6.00		
			43.00	49.00	501356	6.00		
			49.00	52.00	501357	3.00		
			52.00	57.00	501358	5.00		
57.00	67.40	PGC PGC	57.00	61.00	501359	4.00		
		Finer white-pink chert; strong intermittent yellow staining along fractures; dark grey-black bands hematite, slightly magnetic; less fractured than previous unit but still poor rock strength; Unit darkens towards bottom before turning more pink-white near end contact	61.00	64.00	501360	3.00		
			64.00	67.40	501361	3.40		
67.40	88.00	PGC PGC	67.40	70.00	501363	2.60		
		Dark steel grey with white grey quartzite fragments and dispersed brown stains; Better recovery and less fractured than previous; Top of unit well oxidized, terminating near 72m; Presence of microfaults evident by displacement of chert bands	70.00	73.00	501364	3.00		
			73.00	76.00	501365	3.00		
			76.00	79.00	501366	3.00		
			79.00	82.00	501367	3.00		
			82.00	85.00	501368	3.00		
			85.00	88.00	501369	3.00		
88.00	127.20	GC GC						
		Green-brown through transition zone; turns to black; shaley texture with decreasing chert bands and increasing hematite; cherty bands are displaced at start of unit but close to 90, changing to ~70° around 90m; Fold axis identified at 100.6m with axis ranging from 30° to 45°; Beds continue to change orientation down hole moving closer to 45°; mostly intact 90-97m, 100-104m, 112+, highly fractured in all others.						
88.00	88.30	PGC PGC						
		Fault zone; slicified, brown, yellow and orange rocks; brecciated quartz fragments						
127.20	161.50	JUIF JUIF	127.20	130.00	501370	2.80		
		Cherty white grey to punkish, very fractured, Gravel to pebbly sized fragments; bands of strong yellow	130.00	133.00	501371	3.00		

Description			Assay				
			From	To	Number	Length	Fe (%)
161.50	172.00	JUIF JUIF Pink-grey chert banded with hematite and disseminated pyrite; very fractured. EOH	133.00	139.00	501372	6.00	
			139.00	145.00	501373	6.00	
			145.00	151.00	501374	6.00	
			151.00	157.00	501376	6.00	
			157.00	161.50	501377	4.50	
			161.50	164.00	501378	2.50	
			164.00	167.00	501379	3.00	
			167.00	170.00	501380	3.00	
			170.00	172.00	501381	2.00	
			175.00	End of DDH Number of samples: 29 Number of QAQC samples: 2 Total sampled length: 116.80			

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	1.00	OB OB Overburden							
1.00	36.00	UBG UBG dark brown water; mixed deep red-brown & b-grey frags (60/40); with minor qtz; fine to medium grains; fine magnetites	1.00	3.00	501227	2.00			
			3.00	6.00	501228	3.00			
			6.00	9.00	501229	3.00			
			9.00	12.00	501230	3.00			
			12.00	15.00	501231	3.00			
			15.00	18.00	501232	3.00			
			18.00	21.00	501233	3.00			
			21.00	24.00	501234	3.00			
			24.00	27.00	501235	3.00			
			27.00	30.00	501236	3.00			
			30.00	33.00	501238	3.00			
			33.00	36.00	501239	3.00			
36.00	132.00	RC RC brownish-red water; mixed reddish-brown, yellow & b-grey frags (70/10/20) with 1% qtz; grains fine to coarse	36.00	39.00	501240	3.00			
			39.00	42.00	501241	3.00			
			42.00	45.00	501242	3.00			
			45.00	48.00	501243	3.00			
			48.00	51.00	501244	3.00			
			51.00	54.00	501245	3.00			
			54.00	57.00	501246	3.00			
			57.00	60.00	501247	3.00			
			60.00	63.00	501248	3.00			
			63.00	66.00	501249	3.00			
			66.00	69.00	501250	3.00			
			69.00	72.00	502002	3.00			
			72.00	75.00	502003	3.00			
			75.00	78.00	502004	3.00			
			78.00	81.00	502005	3.00			
			81.00	84.00	502006	3.00			
			84.00	87.00	502008	3.00			
			87.00	90.00	502009	3.00			
			90.00	93.00	502010	3.00			

Description			Assay				
			From	To	Number	Length	Fe (%)
			93.00	96.00	502011	3.00	
			96.00	99.00	502013	3.00	
			99.00	102.00	502014	3.00	
			102.00	105.00	502015	3.00	
			105.00	108.00	502016	3.00	
			108.00	111.00	502017	3.00	
			111.00	114.00	502018	3.00	
			114.00	117.00	502019	3.00	
			117.00	120.00	502020	3.00	
			120.00	123.00	502021	3.00	
			123.00	126.00	502022	3.00	
			126.00	129.00	502023	3.00	
			129.00	132.00	502024	3.00	
132.00	174.00	UBG	132.00	135.00	502025	3.00	
		UBG	135.00	138.00	502027	3.00	
		dark red brown water; mixed hem & mag grains (90/10); grains fine to medium;	138.00	141.00	502028	3.00	
			141.00	144.00	502029	3.00	
			144.00	147.00	502030	3.00	
			147.00	150.00	502031	3.00	
			150.00	153.00	502032	3.00	
			153.00	156.00	502033	3.00	
			156.00	159.00	502034	3.00	
			159.00	162.00	502035	3.00	
			162.00	165.00	502036	3.00	
			165.00	168.00	502038	3.00	
			168.00	171.00	502039	3.00	
			171.00	174.00	502040	3.00	
174.00		End of DDH					
		Number of samples: 58					
		Number of QAQC samples: 6					
		Total sampled length: 173.00					

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	6.00	OB OB Overburden							
6.00	10.00	JUIF JUIF Blocky core; Leached; Fractured; Yellowish powder stained; Grey to pinkish chert with Hem bands; Yellowish-brown carbonate oxidized to limonite; Bedding (30-60°CA?)	6.00	10.00	501382	4.00			
10.00	23.30	JUIF JUIF Blocky; Leached; Whitish chert/carbonate layers with blackisj-dark grey Hem bands red stained; Layered yellow bands, oxidized Carbonates; Bedding: 40-70°CA	10.00	13.50	501383	3.50			
			13.50	16.50	501384	3.00			
			16.50	19.50	501385	3.00			
			19.50	23.30	501386	3.80			
23.30	45.50	URC URC Blocky, partially leached; Dark grey hem banded with light grey-whitish cherd; Decreasing whitish bands or fragment increasing thick Hem bands; Bedding 20°CA -> 60°CA	23.30	26.30	501388	3.00			
			26.30	29.30	501389	3.00			
			29.30	32.30	501390	3.00			
			32.30	34.40	501391	2.10			
			34.40	37.20	501392	2.80			
			37.20	40.40	501393	3.20			
			40.40	43.40	501394	3.00			
			43.40	45.50	501395	2.10			
45.50	47.50	PGC PGC Blocky yellowish-red Limonite powder stains; Banded dark-grey brownish hem interlayered with light grey to yellowish carbonate (leached); Chert bands; Some yellow layers; Bed 40-60°CA	45.50	47.50	501396	2.00			
47.50	91.65	PGC PGC Hem bands w/ white chert; very blocky; Very pervasive limonitic staining; Specular hematite? @ 68m & 71m; Quartz veins ~ 10cm thick from 75 - 78.5m; Long run of almost massive hematite from 83m - 84m; Highly weathered from 85m - 85.3m; Brown and White banded 87 - 88m	47.50	53.00	501397	5.50			
			53.00	56.00	501398	3.00			
			56.00	59.00	501399	3.00			
			59.00	65.00	501401	6.00			
			65.00	71.00	501402	6.00			
			71.00	77.00	501403	6.00			
			77.00	83.00	501404	6.00			
			83.00	86.00	501405	3.00			
91.65	117.00	PGC PGC Brown & white chert; Bedding ~ 45°CA; Very blocky; Massive between 103.8m - 103.9m	86.00	91.65	501407	5.65			
			91.65	95.00	501408	3.35			
			95.00	101.00	501409	6.00			
			101.00	107.00	501410	6.00			

Description			Assay				
			From	To	Number	Length	Fe (%)
117.00	130.50	LIF LIF Light grey shale; Disseminated pyrite; Black staining Graphitic? Mn?; White-grey laminations of chert bands; very blocky	107.00	113.00	501411	6.00	
			113.00	117.00	501413	4.00	
			117.00	120.00	501414	3.00	
			120.00	123.00	501415	3.00	
130.50	134.00	LIF LIF Darker shale; Carbonaceous; pyritic; Bedding generally 60°CA					
134.00	End of DDH Number of samples: 30 Number of QAQC samples: 4 Total sampled length: 117.00						

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	42.00	UBG UBG Dark brown water; mixed frags: grey (mag) , dull red (chert), white (Qtz), yellow (limonite): (60/40/<1%/<1%); very fine diss. mag to medium grains of chert, with <10% coarse grey and red grains.	3.00	6.00	502041	3.00			
			6.00	9.00	502042	3.00			
			9.00	12.00	502043	3.00			
			12.00	15.00	502044	3.00			
			15.00	18.00	502045	3.00			
			18.00	21.00	502046	3.00			
			21.00	24.00	502047	3.00			
			24.00	27.00	502048	3.00			
			27.00	30.00	502049	3.00			
			30.00	33.00	502050	3.00			
			33.00	36.00	502052	3.00			
			36.00	39.00	502053	3.00			
			39.00	42.00	502054	3.00			
42.00	87.00	RC RC Deep red-brn water; mixed frags; deep red (hem), grey (mag) : (70/30) very fine to medium grain, with <5% coarse mag and hem grains.	42.00	45.00	502055	3.00			
			45.00	48.00	502056	3.00			
			48.00	51.00	502057	3.00			
			51.00	54.00	502058	3.00			
			54.00	57.00	502059	3.00			
			57.00	60.00	502060	3.00			
			60.00	63.00	502061	3.00			
			63.00	66.00	502063	3.00			
			66.00	69.00	502064	3.00			
			69.00	72.00	502065	3.00			
			72.00	75.00	502066	3.00			
			75.00	78.00	502068	3.00			
			78.00	81.00	502069	3.00			
			81.00	84.00	502070	3.00			
			84.00	87.00	502071	3.00			
87.00	156.00	LBG LBG dark reddish brn water; mixed frags; grey-blue (mag), dull red (hem), white (qtz): (60/30/10); very fine to	87.00	90.00	502072	3.00			
			90.00	93.00	502073	3.00			
			93.00	96.00	502074	3.00			

Description			Assay				
			From	To	Number	Length	Fe (%)
medium grains, with <5% coarse grey and red frags with <5% coarse red, grey, blue frags			96.00	99.00	502075	3.00	
			99.00	102.00	502077	3.00	
			102.00	105.00	502078	3.00	
			105.00	108.00	502079	3.00	
			108.00	111.00	502080	3.00	
			111.00	114.00	502081	3.00	
			114.00	117.00	502082	3.00	
			117.00	120.00	502083	3.00	
			120.00	123.00	502084	3.00	
			123.00	126.00	502085	3.00	
			126.00	129.00	502086	3.00	
			129.00	132.00	502088	3.00	
			132.00	135.00	502089	3.00	
			135.00	138.00	502090	3.00	
			138.00	141.00	502091	3.00	
			141.00	144.00	502092	3.00	
			144.00	147.00	502093	3.00	
			147.00	150.00	502094	3.00	
			150.00	153.00	502095	3.00	
			153.00	156.00	502096	3.00	
156.00	159.00	502097	3.00				
159.00	162.00	502098	3.00				
162.00	165.00	502099	3.00				
165.00	168.00	502100	3.00				
156.00	174.00	Ruth Ruth dark brn water; mixed frags: grey-black (shale), dull red (hem), white (qtz) : (60/40/<1%); very fine to medium grains, with <1% coarse red frags					
174.00	End of DDH Number of samples: 55 Number of QAQC samples: 4 Total sampled length: 165.00						

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	33.00	LRC LRC Reddish brown water; Mixed frags: dull red (chert), grey (mag), white (qtz): (50/40/10); very fine to med grain with <10% coarse frags: chert, mag frags.	3.00	6.00	502102	3.00			
			6.00	9.00	502103	3.00			
			9.00	12.00	502104	3.00			
			12.00	15.00	502105	3.00			
			15.00	18.00	502106	3.00			
			18.00	21.00	502108	3.00			
			21.00	24.00	502109	3.00			
			24.00	27.00	502110	3.00			
			27.00	30.00	502111	3.00			
			30.00	33.00	502113	3.00			
33.00	102.00	LBG LBG Dark reddish brn water; mainly consists of: dull red (hem), blue-grey (mag): (60/40); very fine diss. of hem and mag to med grain, w/ <1% coarse grains.	33.00	36.00	502114	3.00			
			36.00	39.00	502115	3.00			
			39.00	42.00	502116	3.00			
			42.00	45.00	502117	3.00			
			45.00	48.00	502118	3.00			
			48.00	51.00	502119	3.00			
			51.00	54.00	502120	3.00			
			54.00	57.00	502121	3.00			
			57.00	60.00	502122	3.00			
			60.00	63.00	502123	3.00			
			63.00	66.00	502124	3.00			
			66.00	69.00	502125	3.00			
			69.00	72.00	502127	3.00			
			72.00	75.00	502128	3.00			
			75.00	78.00	502129	3.00			
			78.00	81.00	502130	3.00			
			81.00	84.00	502131	3.00			
			84.00	87.00	502132	3.00			
			87.00	90.00	502133	3.00			
			90.00	93.00	502134	3.00			
			93.00	96.00	502135	3.00			

Description			Assay				
			From	To	Number	Length	Fe (%)
102.00	139.00	Ruth Ruth Black-grey water; mainly composed of black-grey (shale), dull red (hem), and trace amount of white (qtz): (90/10/<1%). fine to coarse grains, mostly shale.	96.00	99.00	502136	3.00	
			99.00	102.00	502138	3.00	
			102.00	105.00	502139	3.00	
			105.00	108.00	502140	3.00	
			108.00	111.00	502141	3.00	
			111.00	114.00	502142	3.00	
			114.00	117.00	502143	3.00	
			117.00	120.00	502144	3.00	
139.00	End of DDH Number of samples: 39 Number of QAQC samples: 4 Total sampled length: 117.00						

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	27.00	UBG UBG Dark reddish brn water; mixed frags: dull red (hem/chert), grey (mag), yellow/pink (limonite), white (qtz): (60/20/10/10); fine to med grain w/ <1% coarse red and grey frags.	3.00	6.00	502145	3.00			
			6.00	9.00	502146	3.00			
			9.00	12.00	502147	3.00			
			12.00	15.00	502148	3.00			
			15.00	18.00	502149	3.00			
			18.00	21.00	502150	3.00			
			21.00	24.00	502152	3.00			
			24.00	27.00	502153	3.00			
27.00	45.00	RC RC Dark brn water; mixed frags: dull red (hem), grey-blue (mag), yellow (limonite), white (qtz): (40/30/20/10); very fine to med grain, w/ <5% coarse grains.	27.00	30.00	502154	3.00			
			30.00	33.00	502155	3.00			
			33.00	36.00	502156	3.00			
			36.00	39.00	502157	3.00			
			39.00	42.00	502158	3.00			
			42.00	45.00	502159	3.00			
45.00	66.00	LBG LBG Dark reddish brn water; mainly composed of dull red (hem) and grey (mag): (90/10); very fine to med grain.	45.00	48.00	502160	3.00			
			48.00	51.00	502161	3.00			
			51.00	54.00	502163	3.00			
			54.00	57.00	502164	3.00			
			57.00	60.00	502165	3.00			
			60.00	63.00	502166	3.00			
			63.00	66.00	502168	3.00			
66.00	93.00	LRC LRC Brn water; mixed frags: grey-black (shale), blue-grey (mag), brn (hem?), and trace white (qtz): (30/10/60/<1%); fine to med grain	66.00	69.00	502169	3.00			
			69.00	72.00	502170	3.00			
			72.00	75.00	502171	3.00			
			75.00	78.00	502172	3.00			
			78.00	81.00	502173	3.00			
			81.00	84.00	502174	3.00			
			84.00	87.00	502175	3.00			
			87.00	90.00	502177	3.00			
			90.00	93.00	502178	3.00			

Description			Assay				
			From	To	Number	Length	Fe (%)
93.00	130.00	Ruth	93.00	96.00	502179	3.00	
		Ruth	96.00	99.00	502180	3.00	
		Grey-brn water; composed of equal parts hem and shale: (50/50), very fine silt to med grain.	99.00	102.00	502181	3.00	
			102.00	105.00	502182	3.00	
			105.00	108.00	502183	3.00	
			108.00	111.00	502184	3.00	
			111.00	114.00	502185	3.00	
			114.00	117.00	502186	3.00	
130.00	End of DDH Number of samples: 38 Number of QAQC samples: 5 Total sampled length: 114.00						

Description			Assay					
			From	To	Number	Length	Fe (%)	
0.00	3.00	OB OB Overburden						
3.00	36.00	LBG LBG Reddish water; composed of dull red (hem) and grey (mag): (70/30), fine to med grain.	3.00	6.00	502188	3.00		
			6.00	9.00	502189	3.00		
			9.00	12.00	502190	3.00		
			12.00	15.00	502191	3.00		
			15.00	18.00	502192	3.00		
			18.00	21.00	502193	3.00		
			21.00	24.00	502194	3.00		
			24.00	27.00	502195	3.00		
			27.00	30.00	502196	3.00		
			30.00	33.00	502197	3.00		
			33.00	36.00	502198	3.00		
36.00	57.00	LRC LRC Dark reddish brn water; consists of dull red-black and black: (60/40); fine to med grain, w/ <1% coarse grains	36.00	39.00	502199	3.00		
			39.00	42.00	502200	3.00		
			42.00	45.00	502202	3.00		
			45.00	48.00	502203	3.00		
			48.00	51.00	502204	3.00		
			51.00	54.00	502205	3.00		
			54.00	57.00	502206	3.00		
57.00	90.00	Ruth Ruth Dark brn water; consists of dull red/brn and black: (40/60); very fine silty to med grain	57.00	60.00	502208	3.00		
			60.00	63.00	502209	3.00		
90.00	End of DDH Number of samples: 20 Number of QAQC samples: 2 Total sampled length: 60.00							

LABEC CENTURY IRON ORE INC.
RC LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE

Hole No.: JOY-11-36

Drilled by: Cabo

Described by: H.Ngo

Licence No.: 014679M (now 020238M)

From: 9/28/2011

To: 1/10/2011

Section: 5N

Work place: Schefferville Coreshack

Collar

Azimuth: 0.0°
Dip: -90.0°
Length: 51.00 m

East	657,921.00
North	6,086,524.00
Elevation	530.69

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	0.0°	-90.0°	No
None	51.00	0.0°	-90.0°	No

Type	Depth	Azimuth	Dip	Invalid
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Description

Core size: NQ Cemented: No Stored: Yes

Description			Assay					
			From	To	Number	Length	Fe (%)	
0.00	3.00	OB OB Overburden						
3.00	15.00	LRC LRC Deep red water; consists of dull red and black (90/10); very fine silt to med grain, w/ <1% coarse grains	3.00	6.00	502210	3.00		
			6.00	9.00	502211	3.00		
			9.00	12.00	502213	3.00		
			12.00	15.00	502214	3.00		
15.00	51.00	Ruth Ruth Dark grey water; consists of black and dull red: (70/30); silty to med grain	15.00	18.00	502215	3.00		
			18.00	21.00	502216	3.00		
			21.00	24.00	502217	3.00		
			24.00	27.00	502218	3.00		
51.00	End of DDH Number of samples: 8 Number of QAQC samples: 1 Total sampled length: 24.00							

LABEC CENTURY IRON ORE INC.
DDH LOGGING JOURNAL
ATTIKAMAGEN PROJECT - JOYCE LAKE

Hole No.: JOY-11-37

Drilled by: Cabo

Described by: H.Ngo/M.Chong

Licence No.: 013445M (now 020231M)

From: 9/18/2011

To: 9/25/2011

Section: 14S

Work place: Schefferville Coreshack

Collar

Azimuth: 50.0°
 Dip: -65.0°
 Length: 197.00 m

East	659,475.00
North	6,085,422.00
Elevation	507.35

Down hole survey

Type	Depth	Azimuth	Dip	Invalid
None	0.00	50.0°	-65.0°	No
None	197.00	50.0°	-65.0°	No

Type	Depth	Azimuth	Dip	Invalid

Description

Core size: NQ Cemented: No Stored: Yes

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	11.00	OB OB Overburden							
11.00	14.00	LC LC Blocky core; LC; grey							
14.00	17.00	JUIF JUIF Blocky core, Alternating bands of white (limonite) and dull red (hem)	14.00	20.00	501416	6.00			
17.00	19.50	JUIF JUIF Blocky core; Massive hematite, dirty orange in colour							
19.50	23.00	JUIF JUIF Blocky core; Grey; Massive hematite with thin bed of white limonite; Extremely weathered	20.00	23.00	501417	3.00			
23.00	25.50	JUIF JUIF Blocky core; Brecciated hematite with LC	23.00	26.00	501418	3.00			
25.50	35.00	JUIF JUIF Blocky core; Massive hematite with irregular thin bed of LC/ limonitic weathered	26.00	29.00	501419	3.00			
			29.00	32.00	501420	3.00			
			32.00	35.00	501421	3.00			
35.00	63.70	JUIF JUIF Reddish-grey & brownish grey chert; leached & pock-marked; Hem bands; very blocky; Down dip structure? Evident @ 52m; Light limonitic staining	35.00	38.00	501422	3.00			
			38.00	41.00	501423	3.00			
			41.00	44.00	501426	3.00			
			44.00	47.00	501427	3.00			
			47.00	50.00	501428	3.00			
			50.00	53.00	501429	3.00			
			53.00	56.00	501430	3.00			
			56.00	59.00	501431	3.00			
			59.00	63.70	501432	4.70			
63.70	70.50	GC GC Core washed away 65-68m; dark grey-green chert; pock marked; very blocky	63.70	68.00	501433	4.30			
			68.00	70.50	501434	2.50			
70.50	78.50	URC URC Grey with red chert; very blocky	70.50	74.00	501435	3.50			
			74.00	78.50	501436	4.50			

Description			Assay							
			From	To	Number	Length	Fe (%)			
78.50	145.00	PGC PGC Pinkish grey with white; Hem banded; pock-marked; Oolitic with limonitic staining; Bands of white silicates 122m - 135m; Strong limonitic staining 118m -122m; Poor rock strength; Down dip structure? At 128m - 132m? Silicified with quartz veining at 135.5m	78.50	83.00	501438	4.50				
			83.00	86.00	501439	3.00				
			86.00	89.00	501440	3.00				
			89.00	92.00	501441	3.00				
			92.00	95.00	501442	3.00				
			95.00	98.00	501443	3.00				
			98.00	101.00	501444	3.00				
			101.00	104.00	501445	3.00				
			104.00	107.00	501446	3.00				
			107.00	110.00	501447	3.00				
			110.00	113.00	501448	3.00				
			113.00	116.00	501449	3.00				
			116.00	122.00	501451	6.00				
			122.00	128.00	501452	6.00				
			128.00	131.00	501453	3.00				
			131.00	134.00	501454	3.00				
			134.00	140.00	501455	6.00				
			140.00	143.00	501456	3.00				
			145.00	193.00	LRGC LRGC Dark grey & white-grey banded w/ pock-marked hem; Oxidized; Yellow-orange limonitic staining along beds; 173-185m PGC? Heavy limonitic staining 185-193m	143.00	145.00	501457	2.00	
						145.00	149.00	501458	4.00	
149.00	152.00	501459				3.00				
152.00	155.00	501460				3.00				
155.00	158.00	501461				3.00				
158.00	161.00	501463				3.00				
161.00	164.00	501464				3.00				
164.00	167.00	501465				3.00				
167.00	170.00	501466				3.00				
170.00	173.00	501467				3.00				
173.00	176.00	501468				3.00				
176.00	179.00	501469				3.00				
179.00	185.00	501470	6.00							
185.00	188.00	501471	3.00							
188.00	193.00	501472	5.00							

Description			Assay				
			From	To	Number	Length	Fe (%)
193.00	197.10	URC URC Massive hematite 196.5-197m, good core ; some limonitic staining; much of remaining core lost; Bedding: 60° CA;	193.00	197.10	501473	4.10	
197.00	End of DDH Number of samples: 53 Number of QAQC samples: 4 Total sampled length: 183.10						

Description			Assay					
			From	To	Number	Length	Fe (%)	
0.00	6.60	OB OB Overburden						
6.60	18.00	JUIF JUIF Hem banded with white chert; pock marked; PGC?; Very fractured, poor rock strength; oxidized; White carbonate layers @ 16.5m yellow liminitic staining	6.60	11.00	501474	4.40		
			11.00	14.00	501476	3.00		
			14.00	18.00	501477	4.00		
18.00	32.00	JUIF JUIF Very fractured; Grey-white; hem banded; oxidized; silicified	18.00	21.00	501478	3.00		
			21.00	24.00	501479	3.00		
			24.00	27.00	501480	3.00		
			27.00	32.00	501481	5.00		
32.00	50.20	JUIF JUIF White chert banded with hem; distinct bands	32.00	38.00	501482	6.00		
			38.00	42.00	501483	4.00		
			42.00	46.00	501484	4.00		
			46.00	50.20	501485	4.20		
50.20	62.00	JUIF JUIF White chert banded with hem; heavily stained w/ limonite indicating leaching? Quartz vein at 59.1m ~7cm thick.	50.20	53.00	501488	2.80		
			53.00	57.00	501489	4.00		
			57.00	62.00	501490	5.00		
62.00	65.00	URC URC Massive yellow-rusty limonite with thick zone of black hematite	62.00	65.00	501491	3.00		
65.00	68.00	URC URC Interlayered Red limonite with thin bands of grey hematite, strongly deformed and blocky	65.00	68.00	501492	3.00		
68.00	71.00	URC URC Massive orangy-rusty limonite with thin beds of quartz and thick to thin sections of hematite	68.00	74.00	501493	6.00		
71.00	77.50	PGC PGC Thin to thick bands of hematite with in a massive yellowish-rusty limonite. Dip ~60°CA	74.00	80.00	501494	6.00		
77.50	83.00	PGC PGC Thin beds of grey-blue hematite with grey chert. Thick quartz vein cross cutting through unit @ 78m - 80m; Brecciation persistent throughout	80.00	83.00	501495	3.00		
83.00	89.00	PGC PGC Same as previous, cont...	83.00	89.00	501496	6.00		

Description			Assay				
			From	To	Number	Length	Fe (%)
89.00	104.00	PGC PGC Massive blue-grey hematite with thick to thick bed of pink/yellow/white limonite; Dip @ 60°CA; blocky core; Along with thin beds of hematite (red)	89.00	95.00	501497	6.00	
			95.00	98.00	501498	3.00	
			98.00	103.80	501499	5.80	
			103.80	107.00	501501	3.20	
104.00	107.00	PGC PGC Thick to massive yellow limonite interbedded with thin-thick beds blue-grey to reddish hematite					
107.00	116.00	PGC PGC Thick to thin beds of yellow/white beds of limonite with thin to thick beds of hematite dip @ 30°CA; Quartz vein @ 110m	107.00	110.00	501502	3.00	
			110.00	113.00	501503	3.00	
			113.00	116.00	501504	3.00	
116.00	119.00	PGC PGC Thin to thick beds of blue-grey hem interbedded w/ thick to massive limonite	116.00	119.00	501505	3.00	
119.00	125.00	URC URC Massive hematite w/ thin to thick bed of limonite	119.00	122.00	501506	3.00	
			122.00	125.00	501507	3.00	
125.00	128.00	URC URC Massive yellow limonite w/ pock marks and massive hematite	125.00	128.00	501508	3.00	
128.00	131.00	URC URC Massive hematite w/ thick to massive bed of yellow limonite; Dip @ 60°CA; Thin quartz vein @ 128m	128.00	131.00	501509	3.00	
131.00	140.00	URC URC Similar to previous; Orange-rusty limonite along bottom of unit	131.00	134.00	501510	3.00	
			134.00	140.00	501511	6.00	
140.00	143.00	URC URC Orange limonite interbedded with thin to thick beds of hematite with thin beds of white limonite	140.00	146.00	501513	6.00	
143.00	145.00	URC URC Massive to thick red limonite w/ thick to thin beds of yellow-white limonite w/ massive to thick bed of hematite: bed dip @ 30-60°					
145.00	155.00	URC URC (add)	146.00	149.00	501514	3.00	
			149.00	155.00	501515	6.00	

155.00 End of DDH
Number of samples: 37
Number of QAQC samples: 5
Total sampled length: 148.40

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	57.00	UBG UBG Purplish red tint water, nearly transparent; mixed fragsl consists of blue-grey and dull red: (90/10), fine to med grain, w/ <1% coarse frags	3.00	6.00	502219	3.00			
			6.00	9.00	502220	3.00			
			9.00	12.00	502221	3.00			
			12.00	15.00	502222	3.00			
			15.00	18.00	502223	3.00			
			18.00	21.00	502224	3.00			
			21.00	24.00	502225	3.00			
			24.00	27.00	502227	3.00			
			27.00	30.00	502228	3.00			
			30.00	33.00	502229	3.00			
			33.00	36.00	502230	3.00			
			36.00	39.00	502231	3.00			
			39.00	42.00	502232	3.00			
			42.00	45.00	502233	3.00			
			45.00	48.00	502234	3.00			
			48.00	51.00	502235	3.00			
			51.00	54.00	502236	3.00			
			54.00	57.00	502238	3.00			
57.00	69.00	RC RC Dark reddish brn water; (60/40) Red/Grey; fine to med grain, w/ <1% coarse grains	57.00	60.00	502239	3.00			
			60.00	63.00	502240	3.00			
			63.00	66.00	502241	3.00			
			66.00	69.00	502242	3.00			
69.00	159.00	LBG LBG Dark red water; dull red and grey; (70/30), very fine to med grain	69.00	72.00	502243	3.00			
			72.00	75.00	502244	3.00			
			75.00	78.00	502245	3.00			
			78.00	81.00	502246	3.00			
			81.00	84.00	502247	3.00			
			84.00	87.00	502248	3.00			
			87.00	90.00	502249	3.00			
			90.00	93.00	502250	3.00			
			93.00	96.00	502352	3.00			

Description			Assay				
			From	To	Number	Length	Fe (%)
			96.00	99.00	502353	3.00	
			99.00	102.00	502354	3.00	
			102.00	105.00	502355	3.00	
			105.00	108.00	502356	3.00	
			108.00	111.00	502357	3.00	
			111.00	114.00	502358	3.00	
			114.00	117.00	502359	3.00	
			117.00	120.00	502360	3.00	
			120.00	123.00	502361	3.00	
			123.00	126.00	502363	3.00	
			126.00	129.00	502364	3.00	
			129.00	132.00	502365	3.00	
			132.00	135.00	502366	3.00	
			135.00	138.00	502368	3.00	
			138.00	141.00	502369	3.00	
			141.00	144.00	502370	3.00	
			144.00	147.00	502371	3.00	
			147.00	150.00	502372	3.00	
			150.00	153.00	502373	3.00	
			153.00	156.00	502374	3.00	
			156.00	159.00	502375	3.00	
159.00	168.00	Ruth	159.00	162.00	502377	3.00	
		Ruth	162.00	165.00	502378	3.00	
		Dark red water; mixed frags; dull red, grey-black, light grey: (40/50/10), w/ 10% coarse frags	165.00	168.00	502379	3.00	
168.00	End of DDH						
	Number of samples: 55						
	Number of QAQC samples: 7						
	Total sampled length: 135.00						

Description			Assay				
			From	To	Number	Length	Fe (%)
0.00	6.00	OB OB Overburden	3.00	6.00	502380	3.00	
6.00	21.00	LBG LBG Brnish red water; mixed frags; dull red, grey, and trace white: (80/20); very fine to med grain, w/ 10% coarse grains.	6.00	9.00	502381	3.00	
			9.00	12.00	502382	3.00	
			12.00	15.00	502383	3.00	
			15.00	18.00	502384	3.00	
			18.00	21.00	502385	3.00	
21.00	39.00	LRC LRC Deep red-org water; consists of dull red and grey, (80/20); fine to med grain, w/ <10% coarse grain	21.00	24.00	502386	3.00	
			24.00	27.00	502388	3.00	
			27.00	30.00	502389	3.00	
			30.00	33.00	502390	3.00	
			33.00	36.00	502391	3.00	
			36.00	39.00	502392	3.00	
39.00	45.00	Ruth Ruth Black-grey water; mainly composed of black-grey (shale), dull red (hem), and trace amount of white (qtz): (90/10/<1%). fine to coarse grains, mostly shale.					
45.00	End of DDH Number of samples: 12 Number of QAQC samples: 1 Total sampled length: 36.00						

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	81.00	UBG UBG Dark reddish purplish water; mixed frags; blue-grey, dull red, white, and trace yellow; (80/10/10); fine to med grain, w/ 5% coarse mixed frags	3.00	6.00	502393	3.00			
			6.00	9.00	502394	3.00			
			9.00	12.00	502395	3.00			
			12.00	15.00	502396	3.00			
			15.00	18.00	502397	3.00			
			18.00	21.00	502398	3.00			
			21.00	24.00	502399	3.00			
			24.00	27.00	502400	3.00			
			27.00	30.00	502402	3.00			
			30.00	33.00	502403	3.00			
			33.00	36.00	502404	3.00			
			36.00	39.00	502405	3.00			
			39.00	42.00	502406	3.00			
			42.00	45.00	502408	3.00			
			45.00	48.00	502409	3.00			
			48.00	51.00	502410	3.00			
			51.00	54.00	502411	3.00			
			54.00	57.00	502413	3.00			
			57.00	60.00	502414	3.00			
			60.00	63.00	502415	3.00			
			63.00	66.00	502416	3.00			
			66.00	69.00	502417	3.00			
			69.00	72.00	502418	3.00			
			72.00	75.00	502419	3.00			
			75.00	78.00	502420	3.00			
			78.00	81.00	502421	3.00			
81.00	96.00	RC RC Reddish-purplish water; mixed frags; blue-grey, dull red, light green-grey; (60/25/15); very fine to med grain, w/ 5% coarse grain	81.00	84.00	502422	3.00			
			84.00	87.00	502423	3.00			
			87.00	90.00	502424	3.00			
			90.00	93.00	502425	3.00			
			93.00	96.00	502427	3.00			

Description			Assay				
			From	To	Number	Length	Fe (%)
96.00	150.00	LBG LBG Deep reddish brn water; consists of dull red and grey; (90/10), very fine to med grain	96.00	99.00	502428	3.00	
			99.00	102.00	502429	3.00	
			102.00	105.00	502430	3.00	
			105.00	108.00	502431	3.00	
			108.00	111.00	502432	3.00	
			111.00	114.00	502433	3.00	
			114.00	117.00	502434	3.00	
			117.00	120.00	502435	3.00	
			120.00	123.00	502436	3.00	
			123.00	126.00	502438	3.00	
			126.00	129.00	502439	3.00	
			129.00	132.00	502440	3.00	
			132.00	135.00	502441	3.00	
			135.00	138.00	502442	3.00	
			138.00	141.00	502443	3.00	
			141.00	144.00	502444	3.00	
			150.00	159.00	LRC LRC Dark brn reddish water; consists of black-grey and dull red; (60/40), very fine to med grain	144.00	147.00
147.00	150.00	502446				3.00	
150.00	153.00	502447				3.00	
153.00	156.00	502448				3.00	
159.00	171.00	Ruth Ruth Black-grey water; mainly composed of black-grey (shale), dull red (hem), and trace amount of white (qtz): (90/10/<1%). fine to coarse grains, mostly shale.	156.00	159.00	502449	3.00	
171.00	End of DDH Number of samples: 52 Number of QAQC samples: 4 Total sampled length: 156.00						

Description			Assay						
			From	To	Number	Length	Fe (%)		
0.00	3.00	OB OB Overburden							
3.00	84.00	UBG UBG Brown-reddish with mixed fragments - hi-mag blue-grey (90%), dull red (10%), trace white-pink chert.	3.00	6.00	502450	3.00			
			6.00	9.00	502452	3.00			
			9.00	12.00	502453	3.00			
			12.00	15.00	502454	3.00			
			15.00	18.00	502455	3.00			
			18.00	21.00	502456	3.00			
			21.00	24.00	502457	3.00			
			24.00	27.00	502458	3.00			
			27.00	30.00	502459	3.00			
			30.00	33.00	502460	3.00			
			33.00	36.00	502461	3.00			
			36.00	39.00	502463	3.00			
			39.00	42.00	502464	3.00			
			42.00	45.00	502465	3.00			
			45.00	48.00	502466	3.00			
			48.00	51.00	502468	3.00			
			51.00	54.00	502469	3.00			
			54.00	57.00	502470	3.00			
			57.00	60.00	502471	3.00			
			60.00	63.00	502472	3.00			
			63.00	66.00	502473	3.00			
			66.00	69.00	502474	3.00			
			69.00	72.00	502475	3.00			
			72.00	75.00	502477	3.00			
			75.00	78.00	502478	3.00			
			78.00	81.00	502479	3.00			
			81.00	84.00	502480	3.00			
84.00	141.00	RC RC Deep red water. 50/50 fine-coarse (mainly fine) reds, mag greys.	84.00	87.00	502481	3.00			
			87.00	90.00	502482	3.00			
			90.00	93.00	502483	3.00			
			93.00	96.00	502484	3.00			

Description			Assay				
			From	To	Number	Length	Fe (%)
			96.00	99.00	502485	3.00	
			99.00	102.00	502486	3.00	
			102.00	105.00	502488	3.00	
			105.00	108.00	502489	3.00	
			108.00	111.00	502490	3.00	
			111.00	114.00	502491	3.00	
			114.00	117.00	502492	3.00	
			117.00	120.00	502493	3.00	
			120.00	123.00	502494	3.00	
			123.00	126.00	502495	3.00	
			126.00	129.00	502496	3.00	
			129.00	132.00	502497	3.00	
			132.00	135.00	502498	3.00	
			135.00	138.00	502499	3.00	
			138.00	141.00	502501	3.00	
141.00	159.00	LBG	141.00	144.00	502502	3.00	
		LBG	144.00	147.00	502503	3.00	
		60% coarse greys. 10% angular white chert. 30% fine reds. Weak red water.	147.00	150.00	502504	3.00	
			150.00	153.00	502505	3.00	
			153.00	156.00	502506	3.00	
			156.00	159.00	502508	3.00	
160.00	End of DDH						
	Number of samples: 52						
	Number of QAQC samples: 7						
	Total sampled length: 156.00						

Grand Century Iron Ore Inc.

DDH: Joy-12-43

Section: L0

Drilled by:

Claims title:

Work place:

Described by: H.Rezaei

From: 12/03/2012

Description date: 17/05/2012

To: 04/04/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 176.00 m

East	658,299
North	6,086,208
Elevation	505

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_3.375"

Cemented: No

Stored: Yes

Description

0.00	14.00	<p>OB</p> <p>Overburden</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>
14.00	47.00	<p>UMH</p> <p>Upper Massive Hematite</p> <p>Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC</p>
47.00	110.00	<p>RC</p> <p>Red Chert</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
110.00	146.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
146.00	176.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>

176.00 **End of DDH**
 Number of samples: 54
 Number of QAQC samples: 5
 Total sampled length: 162.00









Grand Century Iron Ore Inc.

DDH: Joy-12-44

Section: L-2

Drilled by: Cabo
 Described by: H.Rezaei-R.Bassoo

Claims title:
 From: 17/03/2012
 To: 25/03/2012

Work place:
 Description date: 17/05/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 102.00 m

East	658,647
North	6,086,289
Elevation	505

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	15.00	<p>OB</p> <p>Overburden</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>
15.00	33.00	<p>UMH</p> <p>Upper Massive Hematite</p> <p>Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC</p>
33.00	81.00	<p>RC</p> <p>Red Chert</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
81.00	102.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>

102.00 **End of DDH**
 Number of samples: 26
 Number of QAQC samples: 3
 Total sampled length: 76.50









Grand Century Iron Ore Inc.

DDH: Joy-12-45A

Section: L-2

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 29/03/2012

Description date: 12/06/2012

To: 01/04/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 58.50 m

East	658,574
North	6,086,216
Elevation	505

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	33.00	OB
		Overburden
		Mixed portions of iron formation and clays, with trace amounts of organic matter

33.00	58.50	UMH
		Upper Massive Hematite
		Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC

58.50	End of DDH
	Number of samples: 10
	Number of QAQC samples: 1
	Total sampled length: 25.50









Grand Century Iron Ore Inc.

DDH: Joy-12-46

Section: L-1

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 01/04/2012

Description date: 15/06/2012

To: 03/04/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 109.50 m

East 658,501

North 6,086,284

Elevation 505

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	12.00	OB	Overburden Mixed portions of iron formation and clays, with trace amounts of organic matter
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12.00	109.50	UMH	Upper Massive Hematite Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC
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109.50	End of DDH Number of samples: 33 Number of QAQC samples: 4 Total sampled length: 97.50		
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Grand Century Iron Ore Inc.

DDH: Joy-12-47

Section: L0

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 04/04/2012

Description date: 19/05/2012

To: 11/04/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 102.00 m

East	658,363
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North	6,086,289
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Elevation	505
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Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Intervals 45-48m and 75-78m not received by logging geologists. Samples 1100072 and 1100082 removed as a result to prevent erroneous missing sample counts.

Core size: RC_3.375"

Cemented: No

Stored: Yes

Description

0.00	21.00	OB Overburden Mixed portions of iron formation and clays, with trace amounts of organic matter
21.00	63.00	RC Red Chert Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation
63.00	102.00	LMH Lower Massive Hematite Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic

102.00 End of DDH
 Number of samples: 26
 Number of QAQC samples: 3
 Total sampled length: 78.00









Grand Century Iron Ore Inc.

DDH: Joy-12-48

Section: L-4

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 04/04/2012

Description date: 15/05/2012

To: 08/04/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 126.50 m

East 658,826

North 6,086,183

Elevation 505

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	9.00	<p>OB</p> <p>Overburden</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>
9.00	56.00	<p>RC</p> <p>Red Chert</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
56.00	126.50	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>

126.50 End of DDH
 Number of samples: 40
 Number of QAQC samples: 4
 Total sampled length: 117.00









Grand Century Iron Ore Inc.

DDH: Joy-12-49

Section: L-4

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 08/04/2012

Description date: 19/05/2012

To: 09/04/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 118.50 m

East	658,753
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North	6,086,111
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Elevation	505
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Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	15.00	OB	Overburden Mixed portions of iron formation and clays, with trace amounts of organic matter
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15.00	118.50	UMH	Upper Massive Hematite Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC
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118.50	End of DDH Number of samples: 32 Number of QAQC samples: 2 Total sampled length: 93.00		
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Grand Century Iron Ore Inc.

DDH: Joy-12-50

Section: L-4

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 10/04/2012

Description date: 19/05/2012

To: 10/04/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 92.50 m

East	658,684
North	6,086,042
Elevation	505

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	15.00	OB Overburden Mixed portions of iron formation and clays, with trace amounts of organic matter
15.00	92.50	MSS Menhek Shale Fine grained fissile black shale unit

92.50 End of DDH
Number of samples: 0
Number of QAQC samples: 0
Total sampled length: 0.00









Grand Century Iron Ore Inc.

DDH: Joy-12-51

Section: L-6

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 11/04/2012

Description date: 19/05/2012

To: 12/04/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 69.00 m

East	658,895
North	6,085,974
Elevation	505

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	3.00	OB	
		Overburden	
		Mixed portions of iron formation and clays, with trace amounts of organic matter	

3.00	69.00	UMH	
		Upper Massive Hematite	
		Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC	

69.00	End of DDH	
	Number of samples: 21	
	Number of QAQC samples: 3	
	Total sampled length: 61.50	









Grand Century Iron Ore Inc.

DDH: Joy-12-52

Section: L-6

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 12/04/2012

Description date: 17/06/2012

To: 14/04/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 116.00 m

East	658,968
North	6,086,042
Elevation	505

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	9.00	OB Overburden Mixed portions of iron formation and clays, with trace amounts of organic matter
9.00	63.00	UMH Upper Massive Hematite Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC
63.00	116.00	RC Red Chert Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation

116.00 End of DDH
Number of samples: 36
Number of QAQC samples: 4
Total sampled length: 110.00









Grand Century Iron Ore Inc.

DDH: Joy-12-53

Section: L1

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 18/04/2012

Description date: 26/05/2012

To: 25/04/2012

Collar

System 1

Azimuth: 0.00°
Dip: -90.00°
Length: 82.50 m

East	658,257
North	6,086,321
Elevation	505

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Sample 1107754, 21-24m, not received from drillers and was never sampled or assayed. Sample deleted from database.

Core size: RC_3.375"

Cemented: No

Stored: Yes

Description

0.00	12.00	OB Overburden Mixed portions of iron formation and clays, with trace amounts of organic matter
12.00	57.00	RC Red Chert Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation
57.00	82.50	LMH Lower Massive Hematite Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.

82.50 End of DDH
Number of samples: 23
Number of QAQC samples: 3
Total sampled length: 66.00









Grand Century Iron Ore Inc.

DDH: Joy-12-54

Section: L-1

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 15/04/2012

Description date: 22/05/2012

To: 16/04/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 141.00 m

East 658,468

North 6,086,253

Elevation 505

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Samples:

1100093, 18-21

1100098, 33-36

1100119, 87-90

1100123, 99-102

1100132, 123-126

1100135, 132-135

Core size: RC_90mm

Cemented: No

Stored: Yes

All missing, never received from drillers. Samples deleted from database.

Description

0.00	18.00	<p>OB</p> <p>Overburden</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>
18.00	81.00	<p>UMH</p> <p>Upper Massive Hematite</p> <p>Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC</p>
81.00	96.00	<p>RC</p> <p>Red Chert</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
96.00	141.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>

141.00 **End of DDH**
 Number of samples: 36
 Number of QAQC samples: 5
 Total sampled length: 108.00









Grand Century Iron Ore Inc.

DDH: Joy-12-55

Section: L0

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 16/04/2012

Description date: 21/05/2012

To: 19/04/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 126.00 m

East 658,400

North 6,086,321

Elevation 505

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	9.00	OB Overburden Mixed portions of iron formation and clays, with trace amounts of organic matter
9.00	57.00	UMH Upper Massive Hematite Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC
57.00	69.00	RC Red Chert Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation
69.00	96.00	LMH Lower Massive Hematite Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occuring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
96.00	115.50	LRC Lower Red Chert Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
115.50	126.00	RS Ruth Shale Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation
126.00		End of DDH Number of samples: 36 Number of QAQC samples: 4 Total sampled length: 106.50









Grand Century Iron Ore Inc.

DDH: Joy-12-56

Section: L-6

Drilled by: Cabo
 Described by: H.Rezaei-R.Bassoo

Claims title:
 From: 19/04/2012
 To: 21/04/2012

Work place:
 Description date: 17/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 97.50 m

East	658,330
North	6,086,249
Elevation	505

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Drilled in same place as Joy-11-05 due to hole loss.

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	18.00	OB Overburden Mixed portions of iron formation and clays, with trace amounts of organic matter
18.00	63.00	RC Red Chert Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation
63.00	97.50	LMH Lower Massive Hematite Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic

97.50 End of DDH
Number of samples: 26
Number of QAQC samples: 3
Total sampled length: 76.50









Grand Century Iron Ore Inc.

DDH: Joy-12-57

Section: L2

Drilled by: Cabo
 Described by: H.Rezaei-R.Bassoo

Claims title:
 From: 21/04/2012
 To: 24/04/2012

Work place:
 Description date: 16/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 128.00 m

East	658,360
North	6,086,565
Elevation	527

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	27.00	<p>RC</p> <p>Red Chert</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
27.00	45.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
45.00	81.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
81.00	128.00	<p>RS</p> <p>Ruth Shale</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>

128.00 End of DDH
 Number of samples: 25
 Number of QAQC samples: 2
 Total sampled length: 72.00









Grand Century Iron Ore Inc.

DDH: Joy-12-58

Section: L2

Drilled by: Cabo
 Described by: H.Rezaei-R.Bassoo

Claims title:
 From: 16/05/2012
 To: 18/05/2012

Work place:
 Description date: 19/05/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 60.00 m

East	658,425
North	6,086,628
Elevation	535

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	3.00	<p>OB</p> <p>Overburden</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>
3.00	18.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
18.00	58.50	<p>LRC</p> <p>Lower Red Chert</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
58.50	60.00	<p>RS</p> <p>Ruth Shale</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>

60.00 End of DDH
 Number of samples: 19
 Number of QAQC samples: 2
 Total sampled length: 55.50









Grand Century Iron Ore Inc.

DDH: Joy-12-59

Section: L2

Drilled by: Cabo
 Described by: H.Rezaei-R.Bassoo

Claims title:
 From: 19/05/2012
 To: 20/05/2012

Work place:
 Description date: 21/05/2012

Collar

Azimuth: 0.00°
 Dip: -90.00°
 Length: 66.00 m

System 1

East	658,443
North	6,086,642
Elevation	537

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Not sampled as hole is entirely in shale

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00 45.00 LRC

Lower Red Chert

Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.

45.00 66.00 RS

Ruth Shale

Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation

66.00 End of DDH

Number of samples: 0

Number of QAQC samples: 0

Total sampled length: 0.00









Grand Century Iron Ore Inc.

DDH: Joy-12-60

Section: L1+50

Drilled by: Cabo
 Described by: H.Rezaei-R.Bassoo

Claims title:
 From: 20/05/2012
 To: 21/05/2012

Work place:
 Description date: 23/05/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 95.50 m

East	658,424
North	6,086,559
Elevation	527

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	24.00	RC Red Chert Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation
24.00	66.00	LMH Lower Massive Hematite Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
66.00	95.50	LRC Lower Red Chert Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.

95.50 End of DDH
Number of samples: 31
Number of QAQC samples: 4
Total sampled length: 91.50









Grand Century Iron Ore Inc.

DDH: Joy-12-61

Section: L1

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 21/05/2012

Description date: 30/05/2012

To: 22/05/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 99.00 m

East	658,513
North	6,086,554
Elevation	531

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	3.00	<p>OB</p> <p>Overburden</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>
3.00	54.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
54.00	87.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
87.00	99.00	<p>RS</p> <p>Ruth Shale</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>

99.00 End of DDH
 Number of samples: 33
 Number of QAQC samples: 4
 Total sampled length: 99.00









Grand Century Iron Ore Inc.

DDH: Joy-12-62

Section: L1

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei-R.Bassoo

From: 22/05/2012

Description date: 28/05/2012

To: 23/05/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 69.00 m

East	658,528
North	6,086,578
Elevation	532

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	6.00	<p>OB</p> <p>Overburden</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>
6.00	33.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
33.00	60.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
60.00	69.00	<p>RS</p> <p>Ruth Shale</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>

69.00 End of DDH
 Number of samples: 22
 Number of QAQC samples: 3
 Total sampled length: 66.00









Grand Century Iron Ore Inc.

DDH: Joy-12-63

Section: L1+50

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei-R.Bassoo

From: 23/05/2012

Description date: 28/05/2012

To: 24/05/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 91.50 m

East 658,461

North 6,086,582

Elevation 532

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	51.00	LMH Lower Massive Hematite Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
51.00	84.00	LRC Lower Red Chert Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
84.00	91.50	RS Ruth Shale Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation

91.50 End of DDH
 Number of samples: 28
 Number of QAQC samples: 2
 Total sampled length: 84.00









Grand Century Iron Ore Inc.

DDH: Joy-12-64

Section: L2+50

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 24/05/2012

Description date: 29/05/2012

To: 25/05/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 69.00 m

East	658,331
North	6,086,612
Elevation	536

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	3.00	OB Overburden Mixed portions of iron formation and clays, with trace amounts of organic matter
3.00	42.00	LMH Lower Massive Hematite Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
42.00	63.00	LRC Lower Red Chert Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
63.00	69.00	RS Ruth Shale Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation

69.00 End of DDH
Number of samples: 21
Number of QAQC samples: 3
Total sampled length: 63.00









Grand Century Iron Ore Inc.

DDH: Joy-12-65

Section: L4

Drilled by: Cabo
 Described by: H.Rezaei-R.Bassoo

Claims title:
 From: 25/05/2012
 To: 27/05/2012

Work place:
 Description date: 31/05/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 81.00 m

East	658,076
North	6,086,562
Elevation	529

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	3.00	<p>OB</p> <p>Overburden</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>
3.00	54.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
54.00	72.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
72.00	81.00	<p>RS</p> <p>Ruth Shale</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>

81.00 End of DDH
 Number of samples: 30
 Number of QAQC samples: 4
 Total sampled length: 81.00









Grand Century Iron Ore Inc.

DDH: Joy-12-66

Section: L4+50

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 27/05/2012

Description date: 31/05/2012

To: 28/05/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 82.50 m

East	658,009
North	6,086,551
Elevation	530

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	3.00	<p>OB</p> <p>Overburden</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>
3.00	60.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
60.00	78.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
78.00	82.50	<p>RS</p> <p>Ruth Shale</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>

82.50 End of DDH
 Number of samples: 27
 Number of QAQC samples: 4
 Total sampled length: 81.00









Grand Century Iron Ore Inc.

DDH: Joy-12-67

Section: L4

Drilled by: Cabo

Claims title:

Work place:

Described by: Adeola

From: 28/05/2012

Description date: 05/06/2012

To: 29/05/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 90.00 m

East	658,016
North	6,086,489
Elevation	525

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	9.00	<p>RC</p> <p>Red Chert</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
9.00	72.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
72.00	84.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
84.00	90.00	<p>RS</p> <p>Ruth Shale</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>

90.00 **End of DDH**
 Number of samples: 30
 Number of QAQC samples: 3
 Total sampled length: 90.00









Grand Century Iron Ore Inc.

DDH: Joy-12-68

Section: L4

Drilled by: Cabo

Claims title:

Work place:

Described by: Adeola

From: 29/05/2012

Description date: 05/06/2012

To: 31/05/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 88.50 m

East	658,052
North	6,086,531
Elevation	525

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	6.00	OB Overburden Mixed portions of iron formation and clays, with trace amounts of organic matter
6.00	84.00	LMH Lower Massive Hematite Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
84.00	88.50	LRC Lower Red Chert Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.

88.50 End of DDH
Number of samples: 30
Number of QAQC samples: 2
Total sampled length: 88.50









Grand Century Iron Ore Inc.

DDH: Joy-12-69

Section: L3+50

Drilled by: Cabo

Claims title:

Work place:

Described by: Adeola

From: 31/05/2012

Description date: 06/06/2012

To: 02/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 118.50 m

East	658,080
North	6,086,493
Elevation	525

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	3.00	<p>OB</p> <p>Overburden</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>
3.00	9.00	<p>RC</p> <p>Red Chert</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
9.00	96.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
96.00	118.50	<p>LRC</p> <p>Lower Red Chert</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>

118.50 End of DDH
 Number of samples: 40
 Number of QAQC samples: 4
 Total sampled length: 118.50









Grand Century Iron Ore Inc.

DDH: Joy-12-70

Section: L3+50

Drilled by: Cabo

Claims title:

Work place:

Described by: Adeola

From: 02/06/2012

Description date: 07/06/2012

To: 03/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 93.00 m

East	658,116
North	6,086,539
Elevation	529

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	6.00	<p>OB</p> <p>Overburden</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>
6.00	78.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
78.00	84.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
84.00	93.00	<p>RS</p> <p>Ruth Shale</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>

93.00 End of DDH
 Number of samples: 31
 Number of QAQC samples: 4
 Total sampled length: 93.00









Grand Century Iron Ore Inc.

DDH: Joy-12-71A

Section: L3+50

Drilled by: Cabo
 Described by: R.Borowski

Claims title:
 From: 04/06/2012
 To: 05/06/2012

Work place:
 Description date: 09/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 90.00 m

East	658,034
North	6,086,454
Elevation	525

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	6.00	RC Red Chert Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation
6.00	81.00	LMH Lower Massive Hematite Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
81.00	90.00	LRC Lower Red Chert Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation
90.00		End of DDH Number of samples: 30 Number of QAQC samples: 3 Total sampled length: 90.00

Mineralogy

From	To	Total (%)	Hematite (%)	Magnetite (%)	Specularite (%)	Limonite (%)	Carbonate (%)	Pyrolusite (%)	White Chert (%)	Green Chert (%)	Red Chert (%)
0.00	3.00	NC	5	10	0	0			85	0	0
3.00	6.00	NC	10	12	0	0			87	0	0
6.00	9.00	NC	75	10	0	15			0	0	0
9.00	12.00	NC	75	25	0	0			0	0	0
12.00	15.00	NC	80	20	0	0			0	0	0
15.00	18.00	NC	75	25	0	0			0	0	0
18.00	21.00	NC	75	25	0	0			0	0	0
21.00	24.00	NC	90	10	0	0			0	0	0
24.00	27.00	NC	90	10	0	0			0	0	0
27.00	30.00	NC	95	5	0	0			0	0	0
30.00	33.00	NC	100	0	0	0			0	0	0
33.00	36.00	NC	100	0	0	0			0	0	0
36.00	39.00	NC	95	2	0	0			0	0	0
39.00	42.00	NC	100	0	0	0			0	0	0
42.00	45.00	NC	100	0	0	0			0	0	0
45.00	48.00	NC	100	0	0	0			0	0	0
48.00	51.00	NC	100	0	0	0			0	0	0
51.00	54.00	NC	100	0	0	0			0	0	0
54.00	57.00	NC	100	0	0	0			0	0	0
57.00	60.00	NC	100	0	0	0			0	0	0
60.00	63.00	NC	100	0	0	0			0	0	0
63.00	66.00	NC	100	0	0	0			0	0	0
66.00	69.00	NC	100	0	0	0			0	0	0
69.00	72.00	NC	100	0	0	0			0	0	0
72.00	75.00	NC	100	0	0	0			0	0	0
75.00	78.00	NC	100	0	0	0			0	0	0
78.00	81.00	NC	80	0	0	0			20	0	0
81.00	84.00	NC	40	0	0	0			0	0	0
84.00	87.00	NC	40	0	0	0			0	0	0
87.00	90.00	NC	100	0	0	0			0	0	0

Mineralogy

From	To	Total Chert	Jasper (%)	Quartz (%)	Shale (%)	Goethite (%)	Pyrite (%)	Description (2012)
0.00	3.00	85	0	0	0	0		
3.00	6.00	87	0	0	0	0		
6.00	9.00	0	0	0	0	0		
9.00	12.00	0	0	0	0	0		
12.00	15.00	0	0	0	0	0		
15.00	18.00	0	0	0	0	0		
18.00	21.00	0	0	0	0	0		
21.00	24.00	0	0	0	0	0		
24.00	27.00	0	0	0	0	0		
27.00	30.00	0	0	0	0	0		
30.00	33.00	0	0	0	0	0		
33.00	36.00	0	0	0	0	0		
36.00	39.00	0	0	0	0	0		
39.00	42.00	0	0	0	0	0		
42.00	45.00	0	0	0	0	0		
45.00	48.00	0	0	0	0	0		
48.00	51.00	0	0	0	0	0		
51.00	54.00	0	0	0	0	0		
54.00	57.00	0	0	0	0	0		
57.00	60.00	0	0	0	0	0		
60.00	63.00	0	0	0	0	0		
63.00	66.00	0	0	0	0	0		
66.00	69.00	0	0	0	0	0		
69.00	72.00	0	0	0	0	0		
72.00	75.00	0	0	0	0	0		
75.00	78.00	0	0	0	0	0		
78.00	81.00	20	0	0	0	0		
81.00	84.00	0	0	0	60	0		
84.00	87.00	0	0	0	0	0		
87.00	90.00	0	0	0	0	0		

Characteristics

From	To	Texture	Porosity	Enriched	Overall Color
0.00	3.00		0	No	light brown
3.00	6.00		0	No	greenish brown
6.00	9.00		0	No	reddish brown
9.00	12.00		10	Yes	purplish brown
12.00	15.00		0	Yes	purplish brown
15.00	18.00		0	Yes	sparkly purple
18.00	21.00		0	Yes	purplish brown
21.00	24.00		0	Yes	purple blue
24.00	27.00		0	Yes	purple brown
27.00	30.00		0	Yes	reddish blue
30.00	33.00		0	No	reddish brown
33.00	36.00		0	No	brown/blue
36.00	39.00		0	No	light red brown
39.00	42.00		3	No	red brown
42.00	45.00		0	No	red brown
45.00	48.00		3	No	red brown
48.00	51.00		3	No	brown
51.00	54.00		0	No	light brown
54.00	57.00		0	No	reddish grey
57.00	60.00		0	No	bluish brown
60.00	63.00		0	No	brown
63.00	66.00		0	No	purple blue
66.00	69.00		0	No	purple blue
69.00	72.00		0	No	purple blue
72.00	75.00		0	No	purple blue
75.00	78.00		0	No	reddish purple
78.00	81.00		0	No	light brown
81.00	84.00		0	No	light brown
84.00	87.00		0	No	brown
87.00	90.00		0	No	red

Characteristics

From	To	Water Color	Grain Size
0.00	3.00	yellowish brown	fg-mg, some very coarse (>1cm)
3.00	6.00	yellow to green brown	fg-mg, some very coarse (>1cm)
6.00	9.00	orangy brown	fg-cg
9.00	12.00	red brown, burgundy	vfg-mg
12.00	15.00	red brown, burgundy	fg-mg
15.00	18.00	light brown and colourless	fg-cg
18.00	21.00	purplish red	fg-cg
21.00	24.00	reddish purple	fg-mg
24.00	27.00	dark brown/purple	fine to med, some coarse to very coarse
27.00	30.00	purplish brown	fg to med some very coarse
30.00	33.00	colourless to light brown	fg-mg
33.00	36.00	colourless to purple brown	fg-mg-cg
36.00	39.00	colourless red brown	fg-mg
39.00	42.00	colourless to light brown	fg-mg
42.00	45.00	colourless purplish	fg-mg
45.00	48.00	colourless	fg-mg
48.00	51.00	colourless	fg-mg, some coarse
51.00	54.00	colourless purple	fg-mg
54.00	57.00	colourless	fg-mg
57.00	60.00	colourless	vfg-fg
60.00	63.00	colourless	fg-mg
63.00	66.00	colourless to purple	fg-mg
66.00	69.00	brown	fg-mg, some coarse
69.00	72.00	brown, blue film	vfg-fg, some coarse
72.00	75.00	light-dark brown	vfg-fg
75.00	78.00	brownish purple	f-m, some coarse
78.00	81.00	red with blue film	fg-mg, some very coarse
81.00	84.00	red with blue film	f-mg
84.00	87.00	red with blue film	f-cg
87.00	90.00	red with blue metallic film	fg-mg, some coarse

Grand Century Iron Ore Inc.

DDH: Joy-12-72

Section: L-2

Drilled by: Cabo
 Described by: R.Borowski

Claims title:
 From: 05/06/2012
 To: 06/06/2012

Work place:
 Description date: 09/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 84.00 m

East	658,747
North	6,086,394
Elevation	519

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	21.00	LMH Lower Massive Hematite Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
21.00	72.00	LRC Lower Red Chert Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
72.00	84.00	RS Ruth Shale Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic

84.00 End of DDH
Number of samples: 28
Number of QAQC samples: 3
Total sampled length: 84.00









Grand Century Iron Ore Inc.

DDH: Joy-12-73

Section: L-2+50

Drilled by: Cabo
 Described by: R.Borowski

Claims title:
 From: 09/06/2012
 To: 10/06/2012

Work place:
 Description date: 10/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 33.00 m

East	658,719
North	6,086,431
Elevation	521

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	3.00	LMH Lower Massive Hematite Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
3.00	27.00	LRC Lower Red Chert Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation
27.00	33.00	RS Ruth Shale Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
33.00		End of DDH Number of samples: 11 Number of QAQC samples: 1 Total sampled length: 33.00









Grand Century Iron Ore Inc.

DDH: Joy-12-74

Section: L-3+50

Drilled by: Cabo
Described by: R.Borowski

Claims title:
From: 06/06/2012
To: 07/06/2012

Work place:
Description date: 14/06/2012

Collar

Azimuth: 0.00°
Dip: -90.00°
Length: 90.00 m

System 1

East	658,777
North	6,086,355
Elevation	516

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00 51.00 LMH

Lower Massive Hematite

Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.

51.00 90.00 RS

Ruth Shale

Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation

90.00 End of DDH
Number of samples: 27
Number of QAQC samples: 3
Total sampled length: 81.00









Grand Century Iron Ore Inc.

DDH: Joy-12-75

Section: L-4+50

Drilled by: Cabo

Claims title:

Work place:

Described by: R.Bassoo

From: 07/06/2012

Description date: 14/06/2012

To: 08/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 93.00 m

East	658,897
North	6,086,264
Elevation	522

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	87.00	LMH Lower Massive Hematite Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occuring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
87.00	93.00	RS Ruth Shale Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation

93.00 End of DDH
Number of samples: 29
Number of QAQC samples: 4
Total sampled length: 87.00









Grand Century Iron Ore Inc.

DDH: Joy-12-76

Section: L-4+50

Drilled by: Cabo
 Described by: R.Borowski

Claims title:
 From: 08/06/2012
 To: 09/06/2012

Work place:
 Description date: 15/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 99.00 m

East	658,863
North	6,086,301
Elevation	523

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	3.00	<p>OB</p> <p>Overburden</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
3.00	84.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>
84.00	93.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>
93.00	99.00	<p>RS</p> <p>Ruth Shale</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>

99.00 **End of DDH**
 Number of samples: 33
 Number of QAQC samples: 3
 Total sampled length: 99.00









Grand Century Iron Ore Inc.

DDH: Joy-12-77A

Section: L-5+50

Drilled by: Cabo
Described by: R.Borowski

Claims title:
From: 10/06/2012
To: 11/06/2012

Work place:
Description date: 15/06/2012

Collar

System 1

Azimuth: 0.00°
Dip: -90.00°
Length: 81.00 m

East	658,932
North	6,086,232
Elevation	524

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	69.00	LMH Lower Massive Hematite Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
69.00	75.00	LRC Lower Red Chert Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation
75.00	81.00	RS Ruth Shale Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic

81.00 End of DDH
Number of samples: 27
Number of QAQC samples: 3
Total sampled length: 81.00









Grand Century Iron Ore Inc.

DDH: Joy-12-78

Section: L0+50

Drilled by: Cabo
Described by: R.Borowski

Claims title:
From: 11/06/2012
To: 12/06/2012

Work place:
Description date: 17/06/2012

Collar

System 1

Azimuth: 0.00°
Dip: -90.00°
Length: 30.00 m

East	658,179
North	6,086,160
Elevation	524

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00 12.00

RC

Red Chert

Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.

12.00 30.00

LMH

Lower Massive Hematite

Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation

30.00 End of DDH

Number of samples: 10

Number of QAQC samples: 1

Total sampled length: 30.00









Grand Century Iron Ore Inc.

DDH: Joy-12-79

Section: L-1+50

Drilled by: Cabo
Described by: R.Borowski

Claims title:
From: 12/06/2012
To: 13/06/2012

Work place:
Description date: 19/06/2012

Collar

Azimuth: 0.00°
Dip: -90.00°
Length: 82.50 m

System 1

East	658,242
North	6,086,076
Elevation	528

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	6.00	OB Overburden Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation
6.00	57.00	RC Red Chert Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
57.00	82.50	LMH Lower Massive Hematite Mixed portions of iron formation and clays, with trace amounts of organic matter

82.50 End of DDH
Number of samples: 28
Number of QAQC samples: 3
Total sampled length: 82.50









Grand Century Iron Ore Inc.

DDH: Joy-12-80

Section: L0

Drilled by: Cabo

Claims title:

Work place:

Described by: R.Borowski-R.Bassoo

From: 13/06/2012

Description date: 18/06/2012

To: 16/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 85.50 m

East	658,220
North	6,086,136
Elevation	526

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	3.00	OB Overburden Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation
3.00	39.00	UMH Upper Massive Hematite Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
39.00	85.50	RC Red Chert Mixed portions of iron formation and clays, with trace amounts of organic matter

85.50 End of DDH
 Number of samples: 29
 Number of QAQC samples: 4
 Total sampled length: 85.50









Grand Century Iron Ore Inc.

DDH: Joy-12-81

Section: L0+50

Drilled by: Cabo
 Described by: R.Borowski

Claims title:
 From: 16/06/2012
 To: 17/06/2012

Work place:
 Description date: 18/06/2012

Collar

Azimuth: 0.00°
 Dip: -90.00°
 Length: 63.00 m

System 1

East	658,133
North	6,086,126
Elevation	530

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	57.00	LMH	<p>Lower Massive Hematite</p> <p>Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC</p>
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57.00	63.00	RS	<p>Ruth Shale</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
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63.00	End of DDH		<p>Number of samples: 21</p> <p>Number of QAQC samples: 2</p> <p>Total sampled length: 63.00</p>
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Grand Century Iron Ore Inc.

DDH: Joy-12-82

Section: L-1+50

Drilled by: Cabo
Described by: R.Borowski

Claims title:
From: 17/06/2012
To: 18/06/2012

Work place:
Description date: 20/06/2012

Collar

System 1

Azimuth: 0.00°
Dip: -90.00°
Length: 42.00 m

East	658,214
North	6,086,058
Elevation	533

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	24.00	RC Red Chert Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occuring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
24.00	42.00	LMH Lower Massive Hematite Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation

42.00 End of DDH
Number of samples: 14
Number of QAQC samples: 2
Total sampled length: 42.00









Grand Century Iron Ore Inc.

DDH: Joy-12-83

Section: L-1

Drilled by: Cabo
 Described by: R.Borowski

Claims title:
 From: 18/06/2012
 To: 19/06/2012

Work place:
 Description date: 23/06/2012

Collar

Azimuth: 0.00°
 Dip: -90.00°
 Length: 90.00 m

System 1

East	658,289
North	6,086,043
Elevation	530

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	6.00	OB Overburden Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation
6.00	63.00	UMH Upper Massive Hematite Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation
63.00	75.00	RC Red Chert Mixed portions of iron formation and clays, with trace amounts of organic matter
75.00	90.00	LMH Lower Massive Hematite Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC

90.00 End of DDH
Number of samples: 30
Number of QAQC samples: 3
Total sampled length: 90.00









Grand Century Iron Ore Inc.

DDH: Joy-12-84

Section: L1

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 19/06/2012

Description date: 23/06/2012

To: 21/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 43.50 m

East	658,147
North	6,086,208
Elevation	522

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	12.00	RC Red Chert Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation
12.00	43.50	LMH Lower Massive Hematite Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic

43.50 End of DDH
 Number of samples: 15
 Number of QAQC samples: 1
 Total sampled length: 43.50









Grand Century Iron Ore Inc.

DDH: Joy-12-85

Section: L1+50

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 20/06/2012

Description date: 11/07/2012

To: 29/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 177.00 m

East	658,221
North	6,086,345
Elevation	510

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Missing 30m interval due to sampler not labelling samples - samples were discarded and not sampled.

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	9.00	<p>OB</p> <p>Overburden</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
9.00	60.00	<p>UMH</p> <p>Upper Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
60.00	87.00	<p>RC</p> <p>Red Chert</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>
87.00	132.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC</p>
132.00	168.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
168.00	177.00	<p>RS</p> <p>Ruth Shale</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
177.00		<p>End of DDH</p> <p>Number of samples: 48</p> <p>Number of QAQC samples: 5</p> <p>Total sampled length: 147.00</p>









Grand Century Iron Ore Inc.

DDH: Joy-12-86

Section: L3+50

Drilled by: Cabo
 Described by: R.Borowski

Claims title:
 From: 21/06/2012
 To: 22/06/2012

Work place:
 Description date: 29/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 79.50 m

East	658,146
North	6,086,558
Elevation	533

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	12.00	RC Red Chert Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
12.00	54.00	LMH Lower Massive Hematite Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
54.00	75.00	LRC Lower Red Chert Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation
75.00	79.50	RS Ruth Shale Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation

79.50 End of DDH
Number of samples: 27
Number of QAQC samples: 3
Total sampled length: 79.50









Grand Century Iron Ore Inc.

DDH: Joy-12-87

Section: L3+50

Drilled by: Cabo
 Described by: R.Borowski

Claims title:
 From: 24/06/2012
 To: 26/06/2012

Work place:
 Description date: 30/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 48.00 m

East	658,221
North	6,086,633
Elevation	544

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	39.00	LMH Lower Massive Hematite Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
39.00	45.00	LRC Lower Red Chert Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
45.00	48.00	RS Ruth Shale Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic

48.00 End of DDH
 Number of samples: 16
 Number of QAQC samples: 1
 Total sampled length: 48.00









Grand Century Iron Ore Inc.

DDH: Joy-12-88

Section: L3

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 22/06/2012

Description date: 28/06/2012

To: 24/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 69.00 m

East	658,221
North	6,086,563
Elevation	534

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	3.00	OB Overburden Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
3.00	30.00	RC Red Chert Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
30.00	69.00	LMH Lower Massive Hematite Mixed portions of iron formation and clays, with trace amounts of organic matter

69.00 End of DDH
Number of samples: 23
Number of QAQC samples: 4
Total sampled length: 69.00









Grand Century Iron Ore Inc.

DDH: Joy-12-89

Section: L3

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 26/06/2012

Description date: 01/07/2012

To: 27/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 45.00 m

East	658,294
North	6,086,629
Elevation	538

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	33.00	LMH Lower Massive Hematite Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation
33.00	45.00	LRC Lower Red Chert Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic

45.00 End of DDH
Number of samples: 15
Number of QAQC samples: 1
Total sampled length: 45.00









Grand Century Iron Ore Inc.

DDH: Joy-12-90

Section: L2+50

Drilled by: Cabo

Claims title:

Work place:

Described by: R.Bassoo

From: 27/06/2012

Description date: 10/07/2012

To: 30/06/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 78.00 m

East	658,290
North	6,086,565
Elevation	530

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	3.00	<p>OB</p> <p>Overburden</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occuring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
3.00	27.00	<p>RC</p> <p>Red Chert</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
27.00	72.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>
72.00	75.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>
75.00	78.00	<p>RS</p> <p>Ruth Shale</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>

78.00 End of DDH
 Number of samples: 26
 Number of QAQC samples: 4
 Total sampled length: 78.00









Grand Century Iron Ore Inc.

DDH: Joy-12-91

Section: L0

Drilled by: Cabo

Claims title:

Work place:

Described by: R.Bassoo

From: 29/06/2012

Description date: 10/07/2012

To: 06/07/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 171.00 m

East	658,436
North	6,086,360
Elevation	507

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	3.00	<p>OB</p> <p>Overburden</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
3.00	117.00	<p>UMH</p> <p>Upper Massive Hematite</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
117.00	150.00	<p>RC</p> <p>Red Chert</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
150.00	171.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>

171.00 **End of DDH**
 Number of samples: 56
 Number of QAQC samples: 6
 Total sampled length: 168.00









Grand Century Iron Ore Inc.

DDH: Joy-12-92

Section: L-2+50

Drilled by: Cabo

Claims title:

Work place:

Described by: R.Bassoo

From: 30/06/2012

Description date: 10/07/2012

To: 02/07/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 42.00 m

East	658,672
North	6,086,388
Elevation	521

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	3.00	<p>OB</p> <p>Overburden</p> <p>Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC</p>
3.00	33.00	<p>RC</p> <p>Red Chert</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
33.00	42.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
42.00		<p>End of DDH</p> <p>Number of samples: 14</p> <p>Number of QAQC samples: 1</p> <p>Total sampled length: 42.00</p>









Grand Century Iron Ore Inc.

DDH: Joy-12-93

Section: L-3+50

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 02/07/2012

Description date: 10/07/2012

To: 04/07/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 76.50 m

East	658,747
North	6,086,312
Elevation	512

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	45.00	RC Red Chert Mixed portions of iron formation and clays, with trace amounts of organic matter
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45.00	76.50	LMH Lower Massive Hematite Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation
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76.50	End of DDH Number of samples: 26 Number of QAQC samples: 3 Total sampled length: 76.50
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Grand Century Iron Ore Inc.

DDH: Joy-12-94

Section: L0+50

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei-R.Bassoo

From: 04/07/2012

Description date: 11/07/2012

To: 05/07/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 73.50 m

East 658,553

North 6,086,515

Elevation 530

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	45.00	LMH Lower Massive Hematite Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
45.00	73.50	LRC Lower Red Chert Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation

73.50 End of DDH
 Number of samples: 25
 Number of QAQC samples: 3
 Total sampled length: 73.50









Grand Century Iron Ore Inc.

DDH: Joy-12-95

Section: L-5

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 05/07/2012

Description date: 11/07/2012

To: 07/07/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 129.00 m

East 658,964

North 6,086,192

Elevation 528

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	84.00	LMH Lower Massive Hematite Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
84.00	129.00	LRC Lower Red Chert Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
129.00		End of DDH Number of samples: 43 Number of QAQC samples: 5 Total sampled length: 129.00









Grand Century Iron Ore Inc.

DDH: Joy-12-96

Section: L-6+50

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 07/07/2012

Description date: 12/07/2012

To: 10/07/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 103.50 m

East	658,995
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North	6,086,153
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Elevation	528
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Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00 81.00 LMH

Lower Massive Hematite

Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.

81.00 103.50 LRC

Lower Red Chert

Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation

103.50 End of DDH

Number of samples: 35

Number of QAQC samples: 4

Total sampled length: 103.50









Grand Century Iron Ore Inc.

DDH: Joy-12-97

Section: L1+50

Drilled by: Cabo
 Described by: H.Rezaei-R.Bassoo

Claims title:
 From: 06/07/2012
 To: 13/07/2012

Work place:
 Description date: 11/07/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 150.00 m

East	658,357
North	6,086,485
Elevation	525

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	27.00	<p>UMH</p> <p>Upper Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
27.00	72.00	<p>RC</p> <p>Red Chert</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
72.00	129.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
129.00	141.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC</p>
141.00	150.00	<p>RS</p> <p>Ruth Shale</p>

150.00 **End of DDH**
 Number of samples: 50
 Number of QAQC samples: 5
 Total sampled length: 150.00









Grand Century Iron Ore Inc.

DDH: Joy-12-98

Section: L-4

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 10/07/2012

Description date: 14/07/2012

To: 11/07/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 45.00 m

East	659,038
North	6,086,099
Elevation	526

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00 45.00 LMH

Lower Massive Hematite

Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation

45.00 End of DDH
Number of samples: 15
Number of QAQC samples: 2
Total sampled length: 45.00









Grand Century Iron Ore Inc.

DDH: Joy-12-99

Section: L4+50

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei-R.Bassoo

From: 11/07/2012

Description date: 14/07/2012

To: 13/07/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 57.00 m

East 658,038

North 6,086,590

Elevation 531

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	3.00	<p>OB</p> <p>Overburden</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
3.00	36.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
36.00	54.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
54.00	57.00	<p>RS</p> <p>Ruth Shale</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>

57.00 End of DDH
 Number of samples: 19
 Number of QAQC samples: 2
 Total sampled length: 57.00









Grand Century Iron Ore Inc.

DDH: Joy-12-100

Section: L2

Drilled by: Cabo

Claims title:

Work place:

Described by: R.Bassoo

From: 13/07/2012

Description date: 18/07/2012

To: 17/07/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 141.00 m

East 658,299

North 6,086,485

Elevation 528

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	3.00	OB	
		Overburden	
			Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
3.00	21.00	UMH	
		Upper Massive Hematite	
			Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
21.00	66.00	RC	
		Red Chert	
			Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
66.00	129.00	LMH	
		Lower Massive Hematite	
			Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation
129.00	135.00	LRC	
		Lower Red Chert	
			Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC
135.00	141.00	RS	
		Ruth Shale	
			Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation

141.00 **End of DDH**
Number of samples: 46
Number of QAQC samples: 6
Total sampled length: 138.00

Mineralogy

From	To	Total (%)	Hematite (%)	Magnetite (%)	Specularite (%)	Limonite (%)	Carbonate (%)	Pyrolusite (%)	White Chert (%)	Green Chert (%)	Red Chert (%)
3.00	6.00	NC	80	15	0	0			0	0	5
6.00	9.00	NC	85	3	0	0			0	0	12
9.00	12.00	NC	75	20	0	0			0	0	5
12.00	15.00	NC	72	20	0	0			0	0	7
15.00	18.00	NC	78	15	0	0			2	0	5
18.00	21.00	NC	73	20	0	0			1	0	5
21.00	24.00	NC	50	5	0	0			0	0	45
24.00	27.00	NC	83	0	0	1			1	0	15
27.00	30.00	NC	30	0	0	40			1	0	28
30.00	33.00	NC	92	0	0	0			2	0	5
33.00	36.00	NC	95	0	0	0			3	0	2
36.00	39.00	NC	88	0	0	1			7	0	2
39.00	42.00	NC	87	0	0	7			3	0	3
42.00	45.00	NC	50	0	0	15			2	0	3
45.00	48.00	NC	30	0	0	5			2	0	43
48.00	51.00	NC	29	0	0	5			3	0	43
51.00	54.00	NC	85	0	0	0			7	0	7
54.00	57.00	NC	92	0	0	0			1	0	7
57.00	60.00	NC	92	0	0	0			3	0	5
60.00	63.00	NC	60	0	0	0			30	10	0
63.00	66.00	NC	65	0	0	5			10	10	10
66.00	69.00	NC	60	0	0	10			20	0	10
69.00	72.00	NC	65	0	0	20			15	0	0
72.00	75.00	NC	55	0	0	15			30	0	0
75.00	78.00	NC	65	0	0	20			10	0	5
78.00	81.00	NC	76	0	0	4			20	0	0
81.00	84.00	NC	61	0	0	2			10	0	25
84.00	87.00	NC	68	0	0	1			10	0	20
87.00	90.00	NC	90	0	0	5			5	0	0
90.00	93.00	NC	95	0	0	0			5	0	0
93.00	96.00	NC	95	0	0	0			5	0	0
96.00	99.00	NC	95	0	0	1			4	0	0
99.00	102.00	NC	95	0	0	0			5	0	0

Mineralogy

From	To	Total (%)	Hematite (%)	Magnetite (%)	Specularite (%)	Limonite (%)	Carbonate (%)	Pyrolusite (%)	White Chert (%)	Green Chert (%)	Red Chert (%)
102.00	105.00	NC	70	0	0	0			30	0	0
105.00	108.00	NC	60	0	0	0			40	0	0
108.00	111.00	NC	90	0	0	0			10	0	0
111.00	114.00	NC	60	0	0	0			40	0	0
114.00	117.00	NC	100	0	0	0			0	0	0
117.00	120.00	NC	100	0	0	0			0	0	0
120.00	123.00	NC	100	0	0	0			0	0	0
123.00	126.00	NC	90	0	0	0			7	0	0
126.00	129.00	NC	70	0	0	0			30	0	0
129.00	132.00	NC	60	0	0	0			40	0	0
132.00	135.00	NC	10	0	0	0			0	0	0
135.00	138.00	NC	0	0	0	0			0	0	0
138.00	141.00	NC	0	0	0	0			0	0	0

Mineralogy

From	To	Total Chert	Jasper (%)	Quartz (%)	Shale (%)	Goethite (%)	Pyrite (%)	Description (2012)
3.00	6.00	NC	1	0	0	0		
6.00	9.00	NC	0	0	0	0		
9.00	12.00	NC	0	0	0	0		
12.00	15.00	NC	1	0	0	0		
15.00	18.00	NC	0	0	0	0		
18.00	21.00	NC	1	0	0	0		
21.00	24.00	NC	0	0	0	0		
24.00	27.00	NC	0	0	0	0		
27.00	30.00	NC	0	1	0	0		
30.00	33.00	NC	0	0	0	0		
33.00	36.00	NC	0	0	0	0		
36.00	39.00	NC	0	2	0	0		
39.00	42.00	NC	0	0	0	0		
42.00	45.00	NC	0	35	0	0		
45.00	48.00	NC	0	20	0	0		
48.00	51.00	NC	0	20	0	0		
51.00	54.00	NC	0	1	0	0		
54.00	57.00	NC	0	1	0	0		
57.00	60.00	NC	0	0	0	0		
60.00	63.00	NC	0	0	0	0		
63.00	66.00	NC	0	0	0	0		
66.00	69.00	NC	0	0	0	0		
69.00	72.00	NC	0	0	0	0		
72.00	75.00	NC	0	0	0	0		
75.00	78.00	NC	0	0	0	0		
78.00	81.00	NC	0	0	0	0		
81.00	84.00	NC	0	2	0	0		
84.00	87.00	NC	0	2	0	0		
87.00	90.00	NC	0	0	0	0		
90.00	93.00	NC	0	0	0	0		
93.00	96.00	NC	0	0	0	0		
96.00	99.00	NC	0	0	0	0		
99.00	102.00	NC	0	0	0	0		

Mineralogy

From	To	Total Chert	Jasper (%)	Quartz (%)	Shale (%)	Goethite (%)	Pyrite (%)	Description (2012)
102.00	105.00	NC	0	0	0	0		
105.00	108.00	NC	0	0	0	0		
108.00	111.00	NC	0	0	0	0		
111.00	114.00	NC	0	0	0	0		
114.00	117.00	NC	0	0	0	0		
117.00	120.00	NC	0	0	0	0		
120.00	123.00	NC	0	0	0	0		
123.00	126.00	NC	0	3	0	0		
126.00	129.00	NC	0	0	0	0		
129.00	132.00	NC	0	0	0	0		
132.00	135.00	NC	0	0	90	0		
135.00	138.00	NC	0	0	100	0		
138.00	141.00	NC	0	0	100	0		

Characteristics

From	To	Texture	Porosity	Enriched	Overall Color
3.00	6.00	smooth	weak	No	brownish grey
6.00	9.00			No	greyish and speckled red
9.00	12.00	smooth		No	brown
12.00	15.00	smooth		No	brown
15.00	18.00			No	brownish red
18.00	21.00	smooth		No	reddish brown
21.00	24.00			No	brown
24.00	27.00	rough and vuggy	moderate	No	reddish brown
27.00	30.00	rough and vuggy	strong	No	orange
30.00	33.00	rough to smooth	minor	No	red brown
33.00	36.00	rough and vuggy	minor	No	red brown
36.00	39.00	rough and vuggy	minor	No	red
39.00	42.00	rough to smooth	minor	No	orange
42.00	45.00		strong	No	red orange
45.00	48.00	rough and vuggy	moderate	No	red
48.00	51.00	rough and vuggy	minor	No	reddish brown
51.00	54.00	rough and vuggy	minor	No	greyish
54.00	57.00	rough to smooth	minor	No	brownish grey
57.00	60.00	rough and vuggy	minor	No	red
60.00	63.00	smooth		No	reddish brown
63.00	66.00	smooth		No	reddish brown and speckled white
66.00	69.00	rough and vuggy	moderate to strong	No	brownish and speckled yellow
69.00	72.00	smooth		No	brown and speckled yellow
72.00	75.00	smooth		No	brown and speckled yellow
75.00	78.00	rough and vuggy	moderate	No	brownish and speckled yellow
78.00	81.00	rough and vuggy	moderate	No	reddish brown
81.00	84.00	smooth	minor	No	reddish
84.00	87.00	smooth	minor	No	reddish
87.00	90.00	smooth	2	No	reddish brown
90.00	93.00	smooth	1	No	greyish and speckled red
93.00	96.00	smooth	2	No	greyish and speckled red
96.00	99.00	smooth	2	No	greyish brown
99.00	102.00	smooth	0	No	greyish brown
102.00	105.00	smooth		No	reddish and specked white

Characteristics

From	To	Texture	Porosity	Enriched	Overall Color
105.00	108.00	smooth		No	reddish
108.00	111.00	smooth		No	reddish
111.00	114.00	smooth		No	red
114.00	117.00	smooth		No	red
117.00	120.00	smooth	2	No	red
120.00	123.00	smooth	2	No	red
123.00	126.00	smooth		No	red
126.00	129.00	smooth		No	red
129.00	132.00	smooth		No	brownish grey and speckled white
132.00	135.00	smooth		No	red and brown and grey
135.00	138.00	smooth		No	black
138.00	141.00	smooth		No	black

Characteristics

From	To	Water Color	Grain Size
3.00	6.00	brown	m
6.00	9.00	brown	m-c
9.00	12.00	brown	m-c
12.00	15.00	brown	m-c
15.00	18.00	brown	m-c
18.00	21.00		m-c
21.00	24.00	reddish brown	m-c
24.00	27.00		m-c
27.00	30.00	yellowish brown	m-c
30.00	33.00	brownish purple	m-c
33.00	36.00	red brown	m-c
36.00	39.00	red brown	m-c
39.00	42.00	red	m
42.00	45.00	yellowish brown	m
45.00	48.00	brown	m
48.00	51.00	red	m
51.00	54.00	red	m
54.00	57.00	red	m
57.00	60.00	red	m
60.00	63.00	red brown	m
63.00	66.00		m
66.00	69.00	red brown	m
69.00	72.00		m
72.00	75.00		m
75.00	78.00	yellowish brown	f-m
78.00	81.00	yellowish brown	f-m
81.00	84.00	red	m
84.00	87.00	red	m
87.00	90.00	purple brown	m-c
90.00	93.00	purple brown	m
93.00	96.00	purple brown	m-c
96.00	99.00	purple brown	m
99.00	102.00	purple brown	m
102.00	105.00		m-c

Characteristics

From	To	Water Color	Grain Size
105.00	108.00	purple brown	m
108.00	111.00	brown	f-m
111.00	114.00	brown	m-c
114.00	117.00	brown	m-c
117.00	120.00	brown	m-c
120.00	123.00	brown	f-m
123.00	126.00	brown	m
126.00	129.00	brown	m-c
129.00	132.00	brown	f-m
132.00	135.00	dark brown	m
135.00	138.00	black	m-c
138.00	141.00	black	m-c

Grand Century Iron Ore Inc.

DDH: Joy-12-101

Section: L5

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 13/07/2012

Description date: 17/07/2012

To: 14/07/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 54.00 m

East	657,961
North	6,086,526
Elevation	530

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	3.00	<p>OB</p> <p>Overburden</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
3.00	39.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
39.00	51.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>
51.00	54.00	<p>RS</p> <p>Ruth Shale</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>

54.00 End of DDH
 Number of samples: 20
 Number of QAQC samples: 2
 Total sampled length: 54.00









Grand Century Iron Ore Inc.

DDH: Joy-12-102

Section: L3+50

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 14/07/2012

Description date: 18/07/2012

To: 15/07/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 49.50 m

East	658,003
North	6,086,412
Elevation	531

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	36.00	LMH Lower Massive Hematite Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occuring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
36.00	39.00	LRC Lower Red Chert Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
39.00	49.50	RS Ruth Shale Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation

49.50 End of DDH
 Number of samples: 17
 Number of QAQC samples: 1
 Total sampled length: 49.50









Grand Century Iron Ore Inc.

DDH: Joy-12-103

Section: L2+50

Drilled by: Cabo
 Described by: H.Rezaei-R.Bassoo

Claims title:
 From: 17/07/2012
 To: 21/07/2012

Work place:
 Description date: 24/07/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 153.00 m

East	658,182
North	6,086,456
Elevation	530

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	30.00	<p>UMH</p> <p>Upper Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
30.00	60.00	<p>RC</p> <p>Red Chert</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
60.00	129.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>
129.00	150.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC</p>
150.00	153.00	<p>RS</p> <p>Ruth Shale</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>

153.00 **End of DDH**
 Number of samples: 50
 Number of QAQC samples: 6
 Total sampled length: 150.00









Grand Century Iron Ore Inc.

DDH: Joy-12-104

Section: L2+50

Drilled by: Cabo

Claims title:

Work place:

Described by: R.Bassoo

From: 21/07/2012

Description date: 30/07/2012

To: 24/07/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 153.00 m

East 658,144

North 6,086,428

Elevation 530

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	3.00	<p>OB</p> <p>Overburden</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
3.00	42.00	<p>UMH</p> <p>Upper Massive Hematite</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>
42.00	45.00	<p>RC</p> <p>Red Chert</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>
45.00	135.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
135.00	141.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
141.00	153.00	<p>RS</p> <p>Ruth Shale</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
153.00		<p>End of DDH</p> <p>Number of samples: 50</p> <p>Number of QAQC samples: 8</p> <p>Total sampled length: 150.00</p>









Grand Century Iron Ore Inc.

DDH: Joy-12-105

Section: L2+50

Drilled by: Cabo
Described by: R.Borowski

Claims title:
From: 24/07/2012
To: 28/07/2012

Work place:
Description date: 30/07/2012

Collar

Azimuth: 0.00°
Dip: -90.00°
Length: 135.00 m

System 1

East	658,108
North	6,086,375
Elevation	524

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	3.00	<p>OB</p> <p>Overburden</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
3.00	69.00	<p>RC</p> <p>Red Chert</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
69.00	129.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
129.00	132.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>
132.00	135.00	<p>RS</p> <p>Ruth Shale</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>

135.00 **End of DDH**
Number of samples: 44
Number of QAQC samples: 6
Total sampled length: 132.00









Grand Century Iron Ore Inc.

DDH: Joy-12-106

Section: L3

Drilled by: Cabo
 Described by: R.Borowski-R.Bassoo

Claims title:
 From: 28/07/2012
 To: 30/07/2012

Work place:
 Description date: 01/08/2012

Collar

Azimuth: 0.00°
 Dip: -90.00°
 Length: 117.00 m

System 1

East	658,073
North	6,086,418
Elevation	524

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	6.00	OB	
		Overburden	
6.00	30.00	RC	
		Red Chert	
			Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
30.00	93.00	LMH	
		Lower Massive Hematite	
			Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
93.00	111.00	LRC	
		Lower Red Chert	
			Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation
111.00	117.00	RS	
		Ruth Shale	
			Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation

117.00 **End of DDH**
 Number of samples: 37
 Number of QAQC samples: 4
 Total sampled length: 111.00









Grand Century Iron Ore Inc.

DDH: Joy-12-107

Section: L3

Drilled by: Cabo

Claims title:

Work place:

Described by: R.Bassoo

From: 30/07/2012

Description date: 05/08/2012

To: 02/08/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 123.00 m

East 658,152

North 6,086,498

Elevation 531

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	3.00	<p>OB</p> <p>Overburden</p> <p>Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC</p>
3.00	36.00	<p>RC</p> <p>Red Chert</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
36.00	108.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
108.00	114.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>
114.00	123.00	<p>RS</p> <p>Ruth Shale</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
123.00		<p>End of DDH</p> <p>Number of samples: 40</p> <p>Number of QAQC samples: 5</p> <p>Total sampled length: 120.00</p>









Grand Century Iron Ore Inc.

DDH: Joy-12-108

Section: L2+50

Drilled by: Cabo
 Described by: H.Rezaei-R.Bassoo

Claims title:
 From: 02/08/2012
 To: 06/08/2012

Work place:
 Description date: 10/08/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 147.00 m

East	658,213
North	6,086,483
Elevation	531

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	3.00	OB	
		Overburden	
3.00	72.00	RC	
		Red Chert	
			Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
72.00	120.00	LMH	
		Lower Massive Hematite	
			Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
120.00	144.00	LRC	
		Lower Red Chert	
			Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation
144.00	147.00	RS	
		Ruth Shale	
			Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation

147.00 **End of DDH**
 Number of samples: 47
 Number of QAQC samples: 6
 Total sampled length: 141.00









Grand Century Iron Ore Inc.

DDH: Joy-12-109

Section: L2+50

Drilled by: Cabo
 Described by: H.Rezaei-R.Bassoo

Claims title:
 From: 06/08/2012
 To: 10/08/2012

Work place:
 Description date: 12/08/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 102.00 m

East	658,247
North	6,086,534
Elevation	531

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	3.00	OB	
		Overburden	
3.00	39.00	RC	
		Red Chert	
			Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
39.00	87.00	LMH	
		Lower Massive Hematite	
			Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
87.00	96.00	LRC	
		Lower Red Chert	
			Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation
96.00	102.00	RS	
		Ruth Shale	
			Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation

102.00 End of DDH
 Number of samples: 33
 Number of QAQC samples: 3
 Total sampled length: 99.00









Grand Century Iron Ore Inc.

DDH: Joy-12-110A

Section: L1+50

Drilled by: Cabo
 Described by: H.Rezaei-R.Bassoo

Claims title:
 From: 16/08/2012
 To: 21/08/2012

Work place:
 Description date: 19/08/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 171.00 m

East	658,291
North	6,086,426
Elevation	525

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	54.00	<p>UMH</p> <p>Upper Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occuring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
54.00	84.00	<p>RC</p> <p>Red Chert</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
84.00	138.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>
138.00	171.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>

171.00 **End of DDH**
Number of samples: 57
Number of QAQC samples: 6
Total sampled length: 171.00









Grand Century Iron Ore Inc.

DDH: Joy-12-111

Section: L1+50

Drilled by: Cabo
 Described by: H.Rezaei-R.Bassoo

Claims title:
 From: 11/08/2012
 To: 16/08/2012

Work place:
 Description date: 19/08/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 171.00 m

East	658,256
North	6,086,394
Elevation	521

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	87.00	<p>UMH</p> <p>Upper Massive Hematite</p> <p>Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC</p>
87.00	93.00	<p>RC</p> <p>Red Chert</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
93.00	150.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
150.00	171.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC</p>

171.00 **End of DDH**
 Number of samples: 57
 Number of QAQC samples: 6
 Total sampled length: 171.00









Grand Century Iron Ore Inc.

DDH: Joy-12-112

Section: L1+50

Drilled by: Cabo

Claims title:

Work place:

Described by:

From: 21/08/2012

Description date:

To: 22/08/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 3.00 m

East 658,198

North 6,086,295

Elevation 520

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Short hole, stopped at 3m due to hole not going straight.

Core size: RC_2.9375"

Cemented: No

Stored: No

Description

0.00 3.00 UMH
Upper Massive Hematite
Hole not sampled due to drilling issues.

3.00 End of DDH
Number of samples: 0
Number of QAQC samples: 0
Total sampled length: 0.00









Grand Century Iron Ore Inc.

DDH: Joy-12-112A

Section: L1+50

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 26/08/2012

Description date:

To: 29/08/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 57.00 m

East	658,231
North	6,086,269
Elevation	515

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	36.00	UMH Upper Massive Hematite Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation
36.00	57.00	RC Red Chert Red chert and hematite with some magnetite content, increasing limonite concentration towards end of interval

57.00 End of DDH
Number of samples: 19
Number of QAQC samples: 2
Total sampled length: 57.00









Grand Century Iron Ore Inc.

DDH: Joy-12-112B

Section: L1+50

Drilled by: Cabo

Claims title:

Work place:

Described by: Hamid

From: 03/09/2012

Description date:

To: 09/09/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 162.00 m

East	658,225
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North	6,086,266
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Elevation	517
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Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	39.00	<p>UMH</p> <p>Upper Massive Hematite</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
39.00	84.00	<p>RC</p> <p>Red Chert</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
84.00	141.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
141.00	162.00	<p>LRC</p> <p>Lower Massive Hematite</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>

162.00 End of DDH
 Number of samples: 53
 Number of QAQC samples: 6
 Total sampled length: 159.00









Grand Century Iron Ore Inc.

DDH: Joy-12-113

Section: L1

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 22/08/2012

Description date:

To: 26/08/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 117.00 m

East 658,385

North 6,086,532

Elevation 525

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	3.00	OB	
		Overburden	
3.00	54.00	RC	
		Red Chert	
			Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
54.00	96.00	LMH	
		Lower Massive Hematite	
			Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.
96.00	111.00	LRC	
		Lower Red Chert	
111.00	117.00	RS	
		Ruth Shale	
			Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC

117.00 **End of DDH**
 Number of samples: 38
 Number of QAQC samples: 4
 Total sampled length: 114.00









Grand Century Iron Ore Inc.

DDH: Joy-12-114

Section: L3+50

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 22/08/2012

Description date:

To: 25/08/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 117.00 m

East 658,182

North 6,086,601

Elevation 542

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	36.00	LMH Lower Massive Hematite Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation
36.00	54.00	LRC Lower Red Chert Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic
54.00	117.00	RS Ruth Shale Mixed portions of iron formation and clays, with trace amounts of organic matter

117.00 End of DDH
Number of samples: 40
Number of QAQC samples: 4
Total sampled length: 117.00









Grand Century Iron Ore Inc.

DDH: Joy-12-115

Section: L3

Drilled by: Cabo

Claims title:

Work place:

Described by: H.Rezaei

From: 25/08/2012

Description date: 27/08/2012

To: 29/08/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 109.50 m

East 658,247

North 6,086,602

Elevation 538

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	12.00	<p>RC</p> <p>Red Chert</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
12.00	63.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>
63.00	93.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
93.00	109.50	<p>RS</p> <p>Ruth Shale</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>

109.50 End of DDH
 Number of samples: 37
 Number of QAQC samples: 4
 Total sampled length: 109.50









Grand Century Iron Ore Inc.

DDH: Joy-12-116

Section: L3

Drilled by: Cabo

Claims title:

Work place:

Described by: Hamid

From: 29/08/2012

Description date:

To: 02/09/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 100.50 m

East 658,072

North 6,086,335

Elevation 527

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_90mm

Cemented: No

Stored: Yes

Description

0.00	9.00	<p>RC</p> <p>Red Chert</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minor Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>
9.00	75.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC</p>
75.00	90.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
90.00	100.50	<p>RS</p> <p>Ruth Shale</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>

100.50 End of DDH
 Number of samples: 34
 Number of QAQC samples: 4
 Total sampled length: 100.50









Grand Century Iron Ore Inc.

DDH: Joy-12-117

Section: L1

Drilled by: Cabo

Claims title:

Work place:

Described by: Hamid

From: 29/08/2012

Description date:

To: 03/09/2012

Collar

System 1

Azimuth: 0.00°

Dip: -90.00°

Length: 177.00 m

East	658,359
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North	6,086,421
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Elevation	520
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Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Core size: RC_2.9375"

Cemented: No

Stored: Yes

Description

0.00	48.00	<p>UMH</p> <p>Upper Massive Hematite</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>
48.00	117.00	<p>RC</p> <p>Red Chert</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
117.00	174.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
174.00	177.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Part of the Upper Iron Formation, Upper Massive Hematite (UMH) consists of 60-80% medium grained Hematite, 5-10% Magnetite, 2-3% Jasper and 10-15% white, grey and red cherts.. This sub-member has more Hematite, Magnetite and significantly less jasper than the URC and is considered to be an enriched variety of the URC</p>

177.00 **End of DDH**
Number of samples: 59
Number of QAQC samples: 6
Total sampled length: 177.00









Grand Century Iron Ore Inc.

DDH: Joy-12-U1

Section: L2

Drilled by: Cabo
 Described by: H.Rezaei-R.Bassoo

Claims title:
 From: 23/07/2012
 To: 10/08/2012

Work place:
 Description date: 19/08/2012

Collar

System 1

Azimuth: 0.00°
 Dip: -90.00°
 Length: 159.00 m

East	658,147
North	6,086,345
Elevation	525

Down hole survey

Type	Depth	Azimuth	Dip	Invalid	Description

Description

Missing 48m interval due to Discovery drill unable to achieve sufficient recovery for first 48m.

Core size: RC_3.375"

Cemented: No

Stored: Yes

Description

0.00	48.00	<p>NSS</p> <p>No Sample</p> <p>Mixed portions of iron formation and clays, with trace amounts of organic matter</p>
48.00	78.00	<p>RC</p> <p>Red Chert</p> <p>Lower Massive Hematite, part of the MIF of the sokoman formation, greyish blue to blue moderately massive unit, fine to med grained hematite and common specularite occurring within tension gashes, pods and as mesobanding, with minor to moderately minor interbeds of white chert and carbonate (10-15%), and minor intercalations of red chert (1-2%). weakly magnetic</p>
78.00	141.00	<p>LMH</p> <p>Lower Massive Hematite</p> <p>Part of the Lower Iron Formation LIF. Lower Red Chert (LRC) consists of 50-70% green and red chert, 5-10% magnetite, 5-12% carbonate and 30-50% hematite.</p>
141.00	150.00	<p>LRC</p> <p>Lower Red Chert</p> <p>Ruth shale sub-member, previously separated as a significant formation, contains black shale with traces of pyrite and also very minot Magnetite, Hematite or Quartz near the transition with the LRC overlying it. Few thin Hematite layers are rarely observed at the top of this sub-member of the lower iron formation</p>
150.00	159.00	<p>RS</p> <p>Ruth Shale</p> <p>Part of the upper iron formation, The red chert or upper red chert units have varying abundances of predominantly 40-50% red chert and 30-40% hematite, with minor green and white chert (10-15%) with occasional 5% jasper. Jasper occurs as fine oolites within certain rock units and is assumed to be part of the Jasper Upper Iron Formation</p>

159.00 **End of DDH**
 Number of samples: 37
 Number of QAQC samples: 4
 Total sampled length: 111.00







