

Hole Number: ER08-63

Units: METRIC

Project Name: Norway - South Norway	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -45.60
Project Number: 203	North: 6659686.76	North: 60.07	Collar Az: 57.40
Location: Surface	East: 557835.12	East: 10.04	Length: 458.16 (m)
	Elev: 180.05	Elev: 180.05	Start Depth: 0.00 (m)
Date Started: Apr 19, 2008	Collar Survey: N	Plugged: N	Contractor: Drillcon Core AB
Date Completed:	Multishot Survey: N	Hole Size: TT46	Core Storage: Tyrstrand
Logged By: Johanna Tordell	Pulse EM Survey: N	Casing: Left in Hole	Final Depth: 458.16 (m)

Comments: The drill hole is designed to test the gabbro/footwall contact on the line 1850N
 Logged by Valerie Batterham after 211m.

Results:

380-403.3m: Low grade GNOR hosted disseminated po/pn/cp with intermittent blebs and quartz vein hosted sulphides. Average 4% sulphides.

403.3-403.5m: GNOR hosted semi-massive sulphides, coarse grained po>>pn>cp. Upper and lower contact grade over 5 cm to low grade sulphides.

403.5-436m: Low grade GNOR hosted interstitial grains of po/pn/cp with intermittent blebs and quartz vein hosted sulphides. Average 3% sulphides.

Footwall reached at 450m. Trace sulphides.

458.15m: Drillers are worried they will lose rods if they continue drilling.

Sample Averages

Survey Data

Depth (m)	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth (m)	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
10.00		-45.60	EZ	OK		25.00		-45.30	EZ	OK	
50.00	58.50	-44.80	EZ	OK		92.00	60.10	-44.50	EZ	OK	
100.00	61.80	-44.40	EZ	OK		143.00	63.40	-44.70	EZ	OK	
150.00	64.50	-44.50	EZ	OK		194.00	66.50	-43.50	EZ	OK	
245.00	69.10	-42.70	EZ	OK		296.00	73.70	-42.60	EZ	OK	
347.00	76.40	-41.10	EZ	OK		458.00	82.50	-41.00	EZ	OK	

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	1.45	CAS, Casing							
1.45	18.00	GNOR, Gabbro Norite dark grey to black (green) medium to coarse grained gabbro norite. Heterogenous (colour and grain size) quartz vein 1-2cm wide, garnet at the contacts to the quartz veins.							
18.00	24.70	FLT, Fault							
24.70	28.10	GNOR, Gabbro Norite as above, garnet at the contact to the pegmatite							

Hole Number: ER08-63

Units: METRIC

Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
28.10	28.75	PEG, Pegmatite Quartz vein							
28.75	33.40	GNOR, Gabbro Norite as above							
33.40	34.70	FLT, Fault							
34.70	55.55	GNOR, Gabbro Norite dark grey to black (green) medium to coarse grained gabbro-norite. Heterogenous (colour and grain size) quartz vein 1-2cm wide, garnet at the contacts to the quartz veins.							
55.55	57.20	FLT, Fault							
57.20	93.45	GNOR, Gabbro Norite dark grey to black (green) medium to coarse grained gabbro-norite. Heterogenous (colour and grain size) quartz vein 1-2cm wide, garnet at the contacts to the quartz veins. 58.15-58.60 mafic dike							
93.45	95.70	PEG, Pegmatite quartz vein, the core gradually get more rich in biotite and amfibol							
95.70	114.85	GNOR, Gabbro Norite dark grey to black (green) medium to coarse grained gabbro-norite. Heterogenous (colour and grain size) quartz vein 1-2cm wide, garnet at the contacts to the quartz veins.							
114.85	118.30	MD, Mafic Dike black, fine grained mafic dike. fractured core							
118.30	145.70	GNOR, Gabbro Norite black, green medium to coarse grained. Partly brecciated Texture 118.30 - 145.70 : QVN Quartz Vein 118.30 - 145.70 : BX Brecciated							
145.70	148.05	PEG, Pegmatite biotite-quartz vein 50/50 Fractured rock Fine grained biotite and medium grained quartz Texture 145.70 - 148.05 : MG Medium Grained quartz 145.70 - 148.05 : FG Fine Grained biotite Structure 145.70 - 148.05							

Hole Number: ER08-63

Units: METRIC

Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
148.05	169.00	GNOR, Gabbro Norite black, green medium grained to coarse grained gabbro norite. chlorite as fractured filling. some quartz vein 1-2 cm wide Texture 148.05 - 169.00 : QVN Quartz Vein							
169.00	170.50	PEG, Pegmatite white, grey coarse graine pegmatite with clasts of biotite Texture 169.00 - 170.00 : CG Coarse Grained							
170.50	174.15	FLT, Fault broken pegmatite to 171.10. the rest is partly brecciated qz rich gabbro, partly fault gouge Texture 170.50 - 174.15 : FLT Fault Gouge 170.50 - 174.15 : PEG Pegmatitic 170.50 - 174.15 : BX Brecciated							
174.15	228.20	GNOR, Gabbro Norite Dark grey to black (green) medium to coarse grained gabbro norite. quartz vein 1-2cm wide. Weak, intermittent pink garnet alteration in mottled texture. Moderately competent core, fractured filling is chlorite MINOR INTERVALS: Minor Interval: 217.8 - 218.8 PEG, Pegmatite White pegmatite, 90% quartz, with biotite and chlorite disseminated and infilling fractures. Upper and lower contacts are abrupt at moderate angles to LCA. No sulphides, competent.							
228.20	230.30	FLT, Fault GNOR hosted FAULT. Very rubbly, trace gouge and moderate soft mineral infill (mostly chlorite). Slickenslides on some fractures. Trace sulphides disseminated.							
230.30	240.80	GNOR, Gabbro Norite Grey, fine to medium grained Gabbro-Norite. 2% disseminated sulphides. Competent. Weak mottled pink garnet alteration. Upper and lower contact are with faults, and are abrupt.							
240.80	242.40	FLT, Fault GNOR hosted FAULT. Very rubbly, trace gouge and moderate soft mineral infill (mostly chlorite). Slickenslides on some fractures. Trace sulphides disseminated. 15% moderately competent, in one section 20cm long.							
242.40	286.50	GNOR, Gabbro Norite Grey, fine to medium grained Gabbro-Norite. 2% disseminated sulphides, intermittent within unit. Generally competent with sections up to 20cm long of fractured rock. Weak mottled pink garnet alteration. Coarse grained quartz veins 3-15cm long within unit. Weakly magnetic.							

Hole Number: ER08-63

Units: METRIC

Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
286.50	300.90	PEG, Pegmatite White, very coarse grained pegmatite. 90% quartz, 9% very coarse grained biotite, 1% mafic inclusions. Upper and lower contact are abrupt. No sulphides.							
300.90	307.50	GNOR, Gabbro Norite Grey, fine to medium grained Gabbro-Norite. 2% disseminated sulphides, intermittent within unit. Generally competent. Weak mottled pink garnet alteration. Coarse grained quartz veins (pegmatite) 3-15cm long within unit. Moderately disseminated biotite. Weakly magnetic.							
307.50	308.80	FLT, Fault GNOR hosted FAULT. Very rubbly, trace gouge and moderate soft mineral infill (mostly chlorite). Slickenslides on some fractures. Trace sulphides disseminated.							
308.80	403.30	GNOR, Gabbro Norite Grey-green, fine to medium grained GNOR. 1% disseminated sulphides. Generally competent with few broken sections of high chlorite alteration. Moderate chlorite dissemination throughout and rare chlorite veins <2cm wide. Weak biotite and garnet alteration. Weak to non-magnetic. 380 - 403.3m: Low grade (2-5%) disseminated po/pn/cp with intermittent blebs and quartz vein hosted sulphides. Average 4% sulphides. Mineralization 308.80 - 380.00 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, DIS Disseminated, 1% not sampled 380.00 - 403.30 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, DIS Disseminated, 4% some blebs, rare quartz vein hosted sulphides, <3cm	BL01832	378.50	380.00	1.50	0.1110	0.0990	0.0080
			BL01833	380.00	381.50	1.50	0.1890	0.1640	0.0110
			BL01834	381.50	383.00	1.50	0.1300	0.1150	0.0080
			BL01835	383.00	384.50	1.50	0.2040	0.1550	0.0120
			BL01836	384.50	386.00	1.50	0.0870	0.0690	0.0060
			BL01837	386.00	387.50	1.50	0.0850	0.0540	0.0060
			BL01838	387.50	389.00	1.50	0.0690	0.0400	0.0050
			BL01839	389.00	390.50	1.50	0.0710	0.0460	0.0050
			BL01841	390.50	392.00	1.50	0.0590	0.0290	0.0040
			BL01842	392.00	393.50	1.50	0.1630	0.0960	0.0110
			BL01843	393.50	395.00	1.50	0.0720	0.0410	0.0050
			BL01844	395.00	396.50	1.50	0.1610	0.1090	0.0110
			BL01845	396.50	398.00	1.50	0.1440	0.1000	0.0100
			BL01846	398.00	399.50	1.50	0.0420	0.0340	0.0040
			BL01847	399.50	401.00	1.50	0.1060	0.0670	0.0080
BL01848	401.00	402.50	1.50	0.1600	0.1210	0.0130			
BL01849	402.50	404.00	1.50	0.3450	0.1950	0.0250			
403.30	403.50	SMS, Semi Massive Sulphide GNOR hosted semi-massive sulphides, coarse grained, po>>pn>cp. Upper and lower contact grade over 5cm to low grade sulphides. Mineralization 403.30 - 403.50 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, SM Semi-Massive, 30% coarse grains							

Hole Number: ER08-63

Units: METRIC

Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
403.50	450.00	GNOR, Gabbro Norite Grey-green, fine to medium grained GNOR, as described above. 2% disseminated sulphides. Generally competent with few broken sections of high chlorite alteration. Moderate chlorite dissemination throughout and rare chlorite veins <2cm wide. Rare quartz/pegmatite veins. Weak biotite and garnet alteration. Weak to non-magnetic. 403.5 - 436m: Low grade (2-5%) disseminated po/pn/cp with intermittent blebs and quartz vein hosted sulphides. Average 3% sulphides. Mineralization 403.50 - 420.00 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, DIS Disseminated, 2% some blebs, rare quartz vein hosted sulphides >2cm wide	BL01850	404.00	405.50	1.50	0.1420	0.1040	0.0110
			BL01851	405.50	407.00	1.50	0.1690	0.1210	0.0130
			BL01852	407.00	408.50	1.50	0.1210	0.0770	0.0080
			BL01853	408.50	410.00	1.50	0.0650	0.0370	0.0050
			BL01854	410.00	411.50	1.50	0.1010	0.0480	0.0050
			BL01855	411.50	413.00	1.50	0.1550	0.0760	0.0090
			BL01856	413.00	414.50	1.50	0.1880	0.1250	0.0130
			BL01857	414.50	416.00	1.50	0.1650	0.1420	0.0120
			BL01858	416.00	417.50	1.50	0.1080	0.0560	0.0080
			BL01859	417.50	419.00	1.50	0.0960	0.0490	0.0060
			BL01861	419.00	420.50	1.50	0.1470	0.1600	0.0110
			BL01862	420.50	422.00	1.50	0.0390	0.0260	0.0040
			BL01863	422.00	423.50	1.50	0.2850	0.1820	0.0170
			BL01864	423.50	425.00	1.50	0.2920	0.2080	0.0180
			BL01865	425.00	426.50	1.50	0.1670	0.0860	0.0100
			BL01867	426.50	428.00	1.50	0.0480	0.0240	0.0040
			BL01868	428.00	429.50	1.50	0.2680	0.0350	0.0120
			BL01869	429.50	431.00	1.50	0.1790	0.0640	0.0090
			BL01870	431.00	432.50	1.50	0.1500	0.0950	0.0070
			BL01871	432.50	434.00	1.50	0.1330	0.0650	0.0080
			BL01872	434.00	435.50	1.50	0.1560	0.0810	0.0110
			BL01873	435.50	437.00	1.50	0.0400	0.0300	0.0040
450.00	458.15	IGN, Intermediate Gneiss Grey and pink, fine to medium grained Intermediate-Gneiss. Competent. Trace sulphides. Fine banding at 30-60 degrees to LCA. 2 brecciated quartz veins 15 cm long. Upper contact is abrupt at 50 degrees to LCA. Moderate pink garnet alteration in mottled texture.							
458.15	458.16	EOH, End of Hole							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
BL01832	378.50	380.00	0.1110	0.0990	0.0080
BL01833	380.00	381.50	0.1890	0.1640	0.0110
BL01834	381.50	383.00	0.1300	0.1150	0.0080
BL01835	383.00	384.50	0.2040	0.1550	0.0120
BL01836	384.50	386.00	0.0870	0.0690	0.0060
BL01837	386.00	387.50	0.0850	0.0540	0.0060
BL01838	387.50	389.00	0.0690	0.0400	0.0050
BL01839	389.00	390.50	0.0710	0.0460	0.0050
BL01841	390.50	392.00	0.0590	0.0290	0.0040

Hole Number: ER08-63

Units: METRIC

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
BL01842	392.00	393.50	0.1630	0.0960	0.0110
BL01843	393.50	395.00	0.0720	0.0410	0.0050
BL01844	395.00	396.50	0.1610	0.1090	0.0110
BL01845	396.50	398.00	0.1440	0.1000	0.0100
BL01846	398.00	399.50	0.0420	0.0340	0.0040
BL01847	399.50	401.00	0.1060	0.0670	0.0080
BL01848	401.00	402.50	0.1600	0.1210	0.0130
BL01849	402.50	404.00	0.3450	0.1950	0.0250
BL01850	404.00	405.50	0.1420	0.1040	0.0110
BL01851	405.50	407.00	0.1690	0.1210	0.0130
BL01852	407.00	408.50	0.1210	0.0770	0.0080
BL01853	408.50	410.00	0.0650	0.0370	0.0050
BL01854	410.00	411.50	0.1010	0.0480	0.0050
BL01855	411.50	413.00	0.1550	0.0760	0.0090
BL01856	413.00	414.50	0.1880	0.1250	0.0130
BL01857	414.50	416.00	0.1650	0.1420	0.0120
BL01858	416.00	417.50	0.1080	0.0560	0.0080
BL01859	417.50	419.00	0.0960	0.0490	0.0060
BL01861	419.00	420.50	0.1470	0.1600	0.0110
BL01862	420.50	422.00	0.0390	0.0260	0.0040
BL01863	422.00	423.50	0.2850	0.1820	0.0170
BL01864	423.50	425.00	0.2920	0.2080	0.0180
BL01865	425.00	426.50	0.1670	0.0860	0.0100
BL01867	426.50	428.00	0.0480	0.0240	0.0040
BL01868	428.00	429.50	0.2680	0.0350	0.0120
BL01869	429.50	431.00	0.1790	0.0640	0.0090
BL01870	431.00	432.50	0.1500	0.0950	0.0070
BL01871	432.50	434.00	0.1330	0.0650	0.0080
BL01872	434.00	435.50	0.1560	0.0810	0.0110
BL01873	435.50	437.00	0.0400	0.0300	0.0040