

Hole Number: ER08-67

Units: METRIC

Project Name: Norway - South Norway	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -71.50
Project Number: 203	North: 6659846.28	North: 60.07	Collar Az: 53.90
Location: Surface	East: 557775.89	East: 10.04	Length: 471.30 (m)
	Elev: 210.04	Elev: 210.04	Start Depth: 0.00 (m)
Date Started: Jun 11, 2008	Collar Survey: N	Plugged: N	Contractor: Drillcon Core AB
Date Completed:	Multishot Survey: N	Hole Size: NQ	Core Storage: Tyrstrand
Logged By: vbno	Pulse EM Survey: N	Casing: Left in Hole	Final Depth: 471.30 (m)

Comments: This hole was designed to test for the presence of massive sulphides at GNOR/FGN contact at approximately 500m. Possible continuation of sulphides from ER08-49. This hole was shut down at 471.5. The hole caved-in and the drillers refused to continue drilling for fear of losing the rods.

Mineralization

311.5 - 320.5 2-4% Po
 407.0 - 422.0 1-2% Po
 433.0 - 455.5 2-4% Po

Sample Averages

Survey Data

Depth (m)	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth (m)	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
8.50	51.90	-71.50	EZ	OK	magnetic field 5204	50.00	54.80	71.70	EZ	OK	magnetic field 5038
100.00	57.40	-70.30	EZ	OK	magnetic field 5024	150.00	58.80	-70.00	EZ	OK	magnetic field 5030
200.00	60.60	-70.10	EZ	OK	magnetic field 5029	250.00	62.70	-70.20	EZ	OK	magnetic field 5025
300.00	67.90	-70.00	EZ	OK	magnetic field4940	350.00	66.10	-69.80	EZ	OK	magnetic field 5010
411.00	67.50	-69.30	EZ	OK	magnetic field 5074						

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	2.80	CAS, Casing							
2.80	148.30	GNOR, Gabbro Norite Green-grey, medium grained. Gabbro-Norite. Trace sulphides finely disseminated and intermittent. Non-magnetic. Moderate-pervasive chlorite alteration replacing pyroxenes. Amphibole alteration increases to moderate downhole. Weak interstitial mica grains. Pegmatite veins 10-30cm long, comprise 5% of first 50m. Generally competent with broken sections 1-40cm long, approximately every 3-5m. Lower contact is a GNOR hosted fault. Alteration 2.80 - 10.00 :WEA Weathering, F Fracture Controlled, M Moderate 2.80 - 148.30 :CHL Chlorite, P Pervasive, M Moderate Structure 2.80 - 25.00 40% broken sections							

DETAILED LOG

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
148.30	153.30	FLT, Fault Gabbro-norite with pegmatite veins hosted FAULT. Brecciated, highly fractured, clay, gouge, and soft mineral infill comprise >80% of section. Alteration is predominantly chlorite, with some brown and grey clay. Alteration 148.30 - 153.30 :CHL Chlorite, P Pervasive, S Strong Intense. Structure 148.30 - 153.30 148.30 - 153.30 148.30 - 153.30 148.30 - 153.30							

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
153.30	343.60	GNOR, Gabbro Norite	BL02925	274.00	275.50	1.50	0.1560	0.1240	0.0090
		Green-grey, medium grained. Gabbro-Norite. Trace sulphides finely disseminated and intermittent. Non-magnetic. Moderate-pervasive chlorite alteration replacing pyroxenes. Moderate amphibole alteration/replacement. Weak interstitial mica grains. Pegmatite veins 10-30cm long, comprise <5% of unit. Generally competent with broken sections 1-40cm long, approximately every 3-5m.	BL02926	275.50	277.00	1.50	0.1380	0.1240	0.0080
			BL02927	277.00	278.50	1.50	0.1890	0.1520	0.0110
			BL02928	278.50	280.00	1.50	0.1930	0.1450	0.0120
			BL02929	280.00	281.50	1.50	0.1730	0.1390	0.0100
			BL02930	281.50	283.00	1.50	0.1260	0.0860	0.0080
			BL02931	283.00	284.50	1.50	0.0990	0.0860	0.0070
		192-231m: Several pegmatite dykes, 90%quartz with 10% coarse grained biotite. Dykes are 10-200cm long, and comprise 25% of unit section.	BL02932	284.50	286.00	1.50	0.0950	0.0740	0.0070
			BL02933	286.00	287.50	1.50	0.0950	0.1090	0.0060
		225.3m: 5cm vein of 40% cp, 40% po, 10% pn, 10% accessory. Vein is within pegmatite dyke. No other sulphides observed.	BL02934	287.50	289.00	1.50	0.0650	0.0510	0.0040
			BL02935	289.00	290.50	1.50	0.0940	0.0790	0.0060
			BL02936	290.50	292.00	1.50	0.0640	0.0540	0.0040
		219-230m: weak to moderate (increasing down hole) mottled pink garnet alteration.	BL02937	292.00	293.50	1.50	0.0970	0.0740	0.0060
			BL02938	293.50	295.00	1.50	0.0390	0.0500	0.0030
			BL02939	295.00	296.50	1.50	0.1140	0.0930	0.0070
		204-238m: Coarse grained.	BL02940	296.50	298.00	1.50	0.1360	0.0960	0.0080
		238-251m: Fine grained.	BL02941	298.00	299.50	1.50	0.1270	0.0890	0.0090
			BL02942	299.50	301.00	1.50	0.1070	0.0700	0.0080
		274-321m: 3% sulphides finely disseminated. 2.5% po, 0.3%pn, 0.2% cp.	BL02943	301.00	302.50	1.50	0.0560	0.0540	0.0050
		Mineralization	BL02944	302.50	304.00	1.50	0.0680	0.0580	0.0060
		260.00 - 269.00 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, DIS Disseminated, 1%	BL02945	304.00	305.50	1.50	0.0750	0.0540	0.0050
		Fine mineral dissemination.	BL02946	305.50	307.00	1.50	0.0530	0.0420	0.0040
		274.00 - 320.00 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, DIS Disseminated, 3%	BL02947	307.00	308.50	1.50	0.0870	0.0610	0.0070
		Uncommon wisps and blebs of po.	BL02948	308.50	310.00	1.50	0.1360	0.0990	0.0080
		Alteration	BL02949	310.00	311.50	1.50	0.1510	0.1150	0.0090
		270.00 - 343.60 :MAG Magnetite, Dis Disseminated, W Weak	BL02951	311.50	313.00	1.50	0.0920	0.0730	0.0060
		Weak dissemination with wispy blebs at 313.5m	BL02952	313.00	314.50	1.50	0.0310	0.0340	0.0030
		153.30 - 343.60 :CHL Chlorite, P Pervasive, M Moderate	BL02953	314.50	316.00	1.50	0.0530	0.0360	0.0040
			BL02954	316.00	317.50	1.50	0.0540	0.0330	0.0040
		MINOR INTERVALS:	BL02955	317.50	319.00	1.50	0.0250	0.0150	0.0020
		Minor Interval:	BL02956	319.00	320.50	1.50	0.0700	0.0490	0.0050
		321.9 - 323.3 MD, Mafic Dike							
		Dark grey aphanitic MAFIC DYKE. Competent, no sulphides. Upper and lower contact are sharp at moderate angles to LCA.							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
343.60	357.80	<p>PEG, Pegmatite</p> <p>White and black coarse grained, PEGMATITE. 90% quartz, 7% coarse grained biotite and muscovite, 3% accessory mafic minerals. Upper and lower contact are abrupt and at moderate angles to LCA. No sulphides.</p> <p>349.5-357.8m: 40% mafic inclusions, including, chlorite, biotite, and likely amphibole.</p> <p>MINOR INTERVALS: Minor Interval: 347.35 - 349.5 PEG, Pegmatite</p> <p>Green and white brecciated healed fault hosted in PEGMATITE. 50% clays and soft minerals surrounding pegmatite clasts. No gouge. No sulphides.</p> <p>Structure 347.35 - 349.50 347.35 - 349.50</p>							
357.80	395.20	<p>GNOR, Gabbro Norite</p> <p>Green-grey, medium grained, Gabbro-Norite. Trace sulphides finely disseminated and intermittent. Non-magnetic. Moderate-pervasive chlorite alteration replacing pyroxenes. Moderate amphibole alteration/replacement. Weak interstitial mica grains. Pegmatite veins 10-30cm long, comprise <5% of unit. Generally competent with broken sections 1-40cm long, approximately every 3-5m.</p> <p>366-370m: Coarse grained. Moderate mottled pink garnet alteration.</p> <p>377-395: Light grey and dark grey banding of rock. Bands are 5-10cm wide, and are all at approximately 30 degrees to LCA. Strength of colour variance changes from slightly different to obvious. Darker colour is possibly due to presence of dark aphanitic mineral. Rock is very hard, possibly tremolitic alteration?</p> <p>379-391m: 0.5-1% sulphides.</p> <p>Alteration 357.80 - 395.20 :CHL Chlorite, P Pervasive, M Moderate</p>							
395.20	397.00	<p>FLT, Fault</p> <p>GNOR hosted FAULT, 80% soft mineral and clay infill, some gouge. GNOR is very broken and rubblely, chlorite coats fractures, and the fractures are possibly slickenslided or possibly mineral growth direction. No sulphides.</p> <p>Structure 395.20 - 397.00 395.20 - 397.00</p>							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
397.00	401.60	GNOR, Gabbro Norite Green-grey, medium grained, Gabbro-Norite. Trace sulphides finely disseminated and intermittent. Moderate magnetism. Moderate-pervasive chlorite alteration replacing pyroxenes. Moderate pervasive biotite alteration, interstitially. Weak amphibole alteration/replacement. Pegmatite veins 10-30cm long, comprise <5% of unit. Generally competent. Some mineral banding of chlorite, surrounded on either side by magnetite, in bands at 45 degrees to LCA and up to 1 mm wide. Likely caused by proximity to faults. Alteration 397.00 - 401.60 :MAG Magnetite, V Vein, M Moderate small veins lining chlorite veins 397.00 - 401.60 :CHL Chlorite, P Pervasive, M Moderate							
401.60	402.00	FLT, Fault GNOR hosted FAULT, 100% soft mineral and clay infill, some gouge. Intense chlorite alteration. No sulphides. Alteration 401.60 - 402.00 :CHL Chlorite, P Pervasive, S Strong Intense alteration. Structure 401.60 - 402.00 401.60 - 402.00							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
402.00	422.40	GNOR, Gabbro Norite Green-grey, medium grained, Gabbro-Norite. Trace sulphides finely disseminated and intermittent. Moderate magnetism. Moderate-pervasive chlorite alteration replacing pyroxenes. Moderate pervasive biotite alteration, interstitially. Weak amphibole alteration/replacement. Generally competent. Light grey and dark grey banding of rock. Bands are 5-10cm wide, and are all at approximately 30 degrees to LCA. Strength of colour variance changes from slightly different to obvious. Darker colour is possibly due to presence of dark aphanitic mineral. Rock is very hard, possibly tremolitic alteration? 402 - 405m: Some mineral banding of chlorite, surrounded on either side by magnetite, in bands at 45 degrees to LCA and up to 1 mm wide. Likely caused by proximity to faults. 408-421m: 2% sulphides, finely disseminated, rarely >2mm diameter, po, cp and pn. Mineralization 408.00 - 421.00 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, DIS Disseminated, 2% intermittent Alteration 402.00 - 405.00 :MAG Magnetite, V Vein, M Moderate Small veins lining chlorite veins 402.00 - 405.00 :CHL Chlorite, P Pervasive, M Moderate Disseminated, replacing, and in veins	BL02957	407.00	408.50	1.50	0.0850	0.0250	0.0060
			BL02958	408.50	410.00	1.50	0.0860	0.0260	0.0060
			BL02959	410.00	411.50	1.50	0.0650	0.0250	0.0050
			BL02960	411.50	413.00	1.50	0.1190	0.0470	0.0080
			BL02961	413.00	414.50	1.50	0.0870	0.0290	0.0060
			BL02962	414.50	416.00	1.50	0.0740	0.0300	0.0060
			BL02963	416.00	417.50	1.50	0.0710	0.0500	0.0060
			BL02964	417.50	419.00	1.50	0.0410	0.0250	0.0030
			BL02965	419.00	420.50	1.50	0.0150	0.0110	0.0020
			BL02966	420.50	422.00	1.50	0.0480	0.0240	0.0050
422.40	423.90	FLT, Fault GNOR hosted FAULT, No gouge, very rubblely, very chlorite altered. No sulphides.							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
423.90	471.30	GNOR, Gabbro Norite	BL02967	433.00	434.00	1.00	0.1140	0.0550	0.0070
		Green-grey, medium grained, Gabbro-Norite. Trace sulphides finely disseminated and intermittent. Moderate magnetism. Moderate-pervasive chlorite alteration replacing pyroxenes. Moderate pervasive biotite alteration, interstitially. Weak amphibole alteration/replacement. Generally competent. Light grey and dark grey banding of rock. Bands are 5-10cm wide, and are all at approximately 30 degrees to LCA. Strength of colour variance changes from slightly different to obvious. Banding due to drilling.	BL02968	434.00	435.00	1.00	0.1530	0.0640	0.0100
		Mineralization	BL02969	435.00	436.00	1.00	0.1610	0.0620	0.0110
		311.5 - 320.5 2-4% Po	BL02970	436.00	437.00	1.00	0.1470	0.0820	0.0110
		407.0 - 422.0 1-2% Po	BL02971	437.00	438.00	1.00	0.1870	0.1070	0.0120
		433.0 - 455.5 2-4% Po	BL02972	438.00	439.00	1.00	0.1950	0.1240	0.0110
		Broken core;	BL02973	439.00	440.00	1.00	0.1310	0.1180	0.0080
		448.70 - 449.15	BL02974	440.00	441.00	1.00	0.0560	0.0380	0.0050
		461.00 - 462.20	BL02975	441.00	442.00	1.00	0.0830	0.0470	0.0070
		Structure	BL02976	442.00	443.00	1.00	0.1430	0.1150	0.0120
		431.00 - 431.00 : FLT Fault, 45 Deg to CA	BL02977	443.00	444.00	1.00	0.1320	0.1010	0.0120
		435.40 - 435.40 : FLT Fault, 45 Deg to CA	BL02978	444.00	445.00	1.00	0.0550	0.0450	0.0060
		449.00 - 449.00 : G Gouge, 80 Deg to CA	BL02979	445.00	446.00	1.00	0.1720	0.1220	0.0150
			BL02980	446.00	446.01	0.01	6.5690	0.2030	0.0420
			BL02981	446.01	447.00	0.99	0.0600	0.0330	0.0040
			BL02982	447.00	448.00	1.00	0.0300	0.0150	0.0040
			BL02983	448.00	449.00	1.00	0.0890	0.0370	0.0070
			BL02984	449.00	450.00	1.00	0.0560	0.0270	0.0040
			BL02985	450.00	451.00	1.00	0.0510	0.0460	0.0030
			BL02986	451.00	452.00	1.00	0.0490	0.0450	0.0040
			BL02987	452.00	453.00	1.00	0.0500	0.0320	0.0030
			BL02988	453.00	454.00	1.00	0.0290	0.0130	0.0020
			BL02989	454.00	454.50	0.50	0.0420	0.0220	0.0020
			BL02990	454.50	455.50	1.00	0.0350	0.0210	0.0030

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
BL02925	274.00	275.50	0.1560	0.1240	0.0090
BL02926	275.50	277.00	0.1380	0.1240	0.0080
BL02927	277.00	278.50	0.1890	0.1520	0.0110
BL02928	278.50	280.00	0.1930	0.1450	0.0120
BL02929	280.00	281.50	0.1730	0.1390	0.0100
BL02930	281.50	283.00	0.1260	0.0860	0.0080
BL02931	283.00	284.50	0.0990	0.0860	0.0070
BL02932	284.50	286.00	0.0950	0.0740	0.0070
BL02933	286.00	287.50	0.0950	0.1090	0.0060
BL02934	287.50	289.00	0.0650	0.0510	0.0040
BL02935	289.00	290.50	0.0940	0.0790	0.0060
BL02936	290.50	292.00	0.0640	0.0540	0.0040
BL02937	292.00	293.50	0.0970	0.0740	0.0060

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Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
BL02938	293.50	295.00	0.0390	0.0500	0.0030
BL02939	295.00	296.50	0.1140	0.0930	0.0070
BL02940	296.50	298.00	0.1360	0.0960	0.0080
BL02941	298.00	299.50	0.1270	0.0890	0.0090
BL02942	299.50	301.00	0.1070	0.0700	0.0080
BL02943	301.00	302.50	0.0560	0.0540	0.0050
BL02944	302.50	304.00	0.0680	0.0580	0.0060
BL02945	304.00	305.50	0.0750	0.0540	0.0050
BL02946	305.50	307.00	0.0530	0.0420	0.0040
BL02947	307.00	308.50	0.0870	0.0610	0.0070
BL02948	308.50	310.00	0.1360	0.0990	0.0080
BL02949	310.00	311.50	0.1510	0.1150	0.0090
BL02951	311.50	313.00	0.0920	0.0730	0.0060
BL02952	313.00	314.50	0.0310	0.0340	0.0030
BL02953	314.50	316.00	0.0530	0.0360	0.0040
BL02954	316.00	317.50	0.0540	0.0330	0.0040
BL02955	317.50	319.00	0.0250	0.0150	0.0020
BL02956	319.00	320.50	0.0700	0.0490	0.0050
BL02957	407.00	408.50	0.0850	0.0250	0.0060
BL02958	408.50	410.00	0.0860	0.0260	0.0060
BL02959	410.00	411.50	0.0650	0.0250	0.0050
BL02960	411.50	413.00	0.1190	0.0470	0.0080
BL02961	413.00	414.50	0.0870	0.0290	0.0060
BL02962	414.50	416.00	0.0740	0.0300	0.0060
BL02963	416.00	417.50	0.0710	0.0500	0.0060
BL02964	417.50	419.00	0.0410	0.0250	0.0030
BL02965	419.00	420.50	0.0150	0.0110	0.0020
BL02966	420.50	422.00	0.0480	0.0240	0.0050
BL02967	433.00	434.00	0.1140	0.0550	0.0070
BL02968	434.00	435.00	0.1530	0.0640	0.0100
BL02969	435.00	436.00	0.1610	0.0620	0.0110
BL02970	436.00	437.00	0.1470	0.0820	0.0110
BL02971	437.00	438.00	0.1870	0.1070	0.0120
BL02972	438.00	439.00	0.1950	0.1240	0.0110
BL02973	439.00	440.00	0.1310	0.1180	0.0080
BL02974	440.00	441.00	0.0560	0.0380	0.0050
BL02975	441.00	442.00	0.0830	0.0470	0.0070

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Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
BL02976	442.00	443.00	0.1430	0.1150	0.0120
BL02977	443.00	444.00	0.1320	0.1010	0.0120
BL02978	444.00	445.00	0.0550	0.0450	0.0060
BL02979	445.00	446.00	0.1720	0.1220	0.0150
BL02980	446.00	446.01	6.5690	0.2030	0.0420
BL02981	446.01	447.00	0.0600	0.0330	0.0040
BL02982	447.00	448.00	0.0300	0.0150	0.0040
BL02983	448.00	449.00	0.0890	0.0370	0.0070
BL02984	449.00	450.00	0.0560	0.0270	0.0040
BL02985	450.00	451.00	0.0510	0.0460	0.0030
BL02986	451.00	452.00	0.0490	0.0450	0.0040
BL02987	452.00	453.00	0.0500	0.0320	0.0030
BL02988	453.00	454.00	0.0290	0.0130	0.0020
BL02989	454.00	454.50	0.0420	0.0220	0.0020
BL02990	454.50	455.50	0.0350	0.0210	0.0030