

## DETAILED LOG

Hole Number: ER2006-11

Units: METRIC

Project Name: Norway - South Norway	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -59.60
Project Number: 203	North: 6659729.80	North: 60.07	Collar Az: 48.80
Location: Ertelia	East: 557979.10	East: 10.04	Length: 300.00 (m)
	Elev: 160.10	Elev: 160.10	Start Depth: 0.00 (m)
Date Started: Aug 25, 2006	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Sep 11, 2006	Multishot Survey: N	Hole Size: TT46	Core Storage:
Logged By: larsw	Pulse EM Survey: N	Casing: Left in Hole, capped	Final Depth: 300.00 (m)

Comments:

## Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	287.50	299.50	12.00	0.2013	0.1750	0.0150

## Survey Data

Depth (m)	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments	Depth (m)	Azimuth Decimal	Dip Decimal	Test Type	Flag	Comments
10.00	48.80	-59.60	EZ	OK		25.00	49.30	-59.40	EZ	OK	
50.00	58.80	-59.10	EZ	OK		100.00	51.20	-58.90	EZ	OK	
150.00	54.50	-58.90	EZ	OK							

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	6.50	C, Casing							

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
6.50	56.55	<p>GAB, Gabbro</p> <p>Medium grained, dark grey, homogenous, weakly magnetic, massive gabbro composed of ~60-70% plagioclase and 30-40% pyroxenes (dark green). Locally, serpentine veinlets (waxy green, to white +/- carbonate) are parallel to ca angles, resulting in an increased amount of broken core. From 44 - 48m the core is very blocky and contains ~5 - 10% mm-scale pale green and white carbonate units.</p> <p>The lower contact of this unit is sharp at 45 degrees tca.</p> <p>This unit contains local trace to minor po and py mineralization. See "Mineralization" for more detail.</p> <p>Mineralization</p> <p>36.50 - 39.30 : Po Pyrrhotite, D Disseminated, 4%</p> <p>36.50 - 39.30 : Py Pyrite, D Disseminated, 1%</p> <p>Structure</p> <p>9.00 - 9.30 : S Schistose, 40 Deg to CA</p> <p>Shear zone at 9.00m, with 30cm of broken core downhole of shear.</p> <p>RQD</p> <p>6.50 - 9.00 : 67.00 % RQD 100.00 % Core</p> <p>9.00 - 12.00 : 79.00 % RQD 100.00 % Core</p> <p>12.00 - 15.00 : 61.00 % RQD 100.00 % Core</p> <p>15.00 - 18.00 : 69.00 % RQD 100.00 % Core</p> <p>18.00 - 21.00 : 80.00 % RQD 100.00 % Core</p> <p>21.00 - 24.00 : 72.00 % RQD 100.00 % Core</p> <p>24.00 - 27.00 : 43.00 % RQD 100.00 % Core</p> <p>27.00 - 30.00 : 66.00 % RQD 100.00 % Core</p> <p>30.00 - 33.00 : 80.00 % RQD 100.00 % Core</p> <p>33.00 - 36.00 : 92.00 % RQD 100.00 % Core</p> <p>36.00 - 39.00 : 81.00 % RQD 100.00 % Core</p> <p>39.00 - 42.00 : 70.00 % RQD 100.00 % Core</p> <p>42.00 - 45.00 : 63.00 % RQD 100.00 % Core</p> <p>45.00 - 48.00 : 42.00 % RQD 100.00 % Core</p> <p>Broken, blocky core; along serpentine injected horizons</p> <p>48.00 - 51.00 : 76.00 % RQD 100.00 % Core</p> <p>51.00 - 54.00 : 72.00 % RQD 100.00 % Core</p> <p>54.00 - 57.00 : 59.00 % RQD 100.00 % Core</p>							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
56.55	73.96	4, Anorthosite / Anorthosite Gabbro This unit consists of a homogeneous, very coarse-grained, non-magnetic pegmatitic rock, consisting of ~90% bright white feldspar, quartz and biotite. The unit is non-foliated and not mineralized. The core is moderately broken between 65.5 and 67.5m.  The lower contact of this unit is sharp at 20 degrees tca; it contains fault gouge material. RQD 57.00 - 60.00 : 70.00 % RQD 100.00 % Core 60.00 - 63.00 : 93.00 % RQD 100.00 % Core 63.00 - 66.00 : 75.00 % RQD 100.00 % Core 66.00 - 69.00 : 49.00 % RQD 100.00 % Core 69.00 - 72.00 : 80.00 % RQD 100.00 % Core 72.00 - 75.00 : 55.00 % RQD 100.00 % Core							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
73.96	223.86	<p>GAB, Gabbro</p> <p>Medium grained, dark grey, on a meter-scale homogenous, weakly magnetic, massive gabbronorite composed of ~60-70% plagioclase and 30-40% pyroxenes (dark green).</p> <p>The lower contact is sharp but highly irregular with a ~5cm thick biotite "cumulate" directly at the contact.</p> <p>184.5 - 188.8m: medium-grained with ~50% white plagioclase</p> <p>The entire unit is trace to weakly mineralized with disseminated po; locally, the sulfides occur patchy.</p> <p>Mineralization 73.96 - 205.00 : Po Pyrrhotite, D Disseminated, 0.5% pervasive dissemination throughout the core</p> <p>Structure 80.09 - 80.12 : S Schistose, 20 Deg to CA serpentized, chloritized 114.95 - 114.97 : S Schistose, 20 Deg to CA serpentized, minor fault gauge 122.64 - 122.68 : S Schistose, 25 Deg to CA chloritized, minor brecciation 127.13 - 127.18 : F Fractured, 20 Deg to CA fault gauge, serpentized 135.25 - 135.27 : S Schistose, 30 Deg to CA minor fault gauge 137.50 - 138.00 : F Fractured, 20 Deg to CA fault zone with broken core 148.55 - 148.65 broken core, attitude unknown 176.00 - 176.20 : F Fractured, 60 Deg to CA broken core 181.80 - 181.85 : S Schistose, 40 Deg to CA 190.10 - 190.30 : F Fractured, 25 Deg to CA carbonate-bearing, minor fault gauge</p> <p>RQD 75.00 - 78.00 : 73.00 % RQD 100.00 % Core 78.00 - 81.00 : 100.00 % RQD 100.00 % Core 81.00 - 84.00 : 79.00 % RQD 100.00 % Core 84.00 - 87.00 : 92.00 % RQD 100.00 % Core 87.00 - 90.00 : 84.00 % RQD 100.00 % Core 90.00 - 93.00 : 76.00 % RQD 100.00 % Core 93.00 - 96.00 : 79.00 % RQD 100.00 % Core 96.00 - 99.00 : 100.00 % RQD 100.00 % Core 99.00 - 102.00 : 98.00 % RQD 100.00 % Core</p>							

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		RQD							
		102.00 - 105.00 : 100.00 % RQD 100.00 % Core							
		105.00 - 108.00 : 90.00 % RQD 100.00 % Core							
		108.00 - 111.00 : 100.00 % RQD 100.00 % Core							
		111.00 - 114.00 : 89.00 % RQD 100.00 % Core							
		114.00 - 117.00 : 88.00 % RQD 100.00 % Core							
		117.00 - 120.00 : 91.00 % RQD 100.00 % Core							
		120.00 - 123.00 : 90.00 % RQD 100.00 % Core							
		123.00 - 126.00 : 93.00 % RQD 100.00 % Core							
		126.00 - 129.00 : 72.00 % RQD 100.00 % Core							
		129.00 - 132.00 : 72.00 % RQD 100.00 % Core							
		132.00 - 135.00 : 83.00 % RQD 100.00 % Core							
		135.00 - 138.00 : 14.00 % RQD 100.00 % Core							
		138.00 - 141.00 : 77.00 % RQD 100.00 % Core							
		141.00 - 144.00 : 61.00 % RQD 100.00 % Core							
		144.00 - 147.00 : 57.00 % RQD 100.00 % Core							
		147.00 - 150.00 : 53.00 % RQD 100.00 % Core							
		150.00 - 153.00 : 95.00 % RQD 100.00 % Core							
		153.00 - 156.00 : 87.00 % RQD 100.00 % Core							
		156.00 - 159.00 : 96.00 % RQD 100.00 % Core							
		159.00 - 162.00 : 90.00 % RQD 100.00 % Core							
		162.00 - 165.00 : 92.00 % RQD 100.00 % Core							
		165.00 - 168.00 : 97.00 % RQD 100.00 % Core							
		168.00 - 171.00 : 100.00 % RQD 100.00 % Core							
		171.00 - 174.00 : 96.00 % RQD 100.00 % Core							
		174.00 - 177.00 : 92.00 % RQD 100.00 % Core							
		177.00 - 180.00 : 95.00 % RQD 100.00 % Core							
		180.00 - 183.00 : 90.00 % RQD 100.00 % Core							
		183.00 - 186.00 : 73.00 % RQD 100.00 % Core							
		186.00 - 189.00 : 83.00 % RQD 100.00 % Core							
		189.00 - 192.00 : 65.00 % RQD 100.00 % Core							
		192.00 - 195.00 : 83.00 % RQD 100.00 % Core							
		195.00 - 198.00 : 83.00 % RQD 100.00 % Core							
		198.00 - 201.00 : 92.00 % RQD 100.00 % Core							
		201.00 - 204.00 : 95.00 % RQD 100.00 % Core							
		204.00 - 207.00 : 67.00 % RQD 100.00 % Core							
		207.00 - 210.00 : 84.00 % RQD 100.00 % Core							
		210.00 - 213.00 : 87.00 % RQD 100.00 % Core							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		RQD 213.00 - 216.00 : 87.00 % RQD 100.00 % Core 216.00 - 219.00 : 86.00 % RQD 100.00 % Core 219.00 - 222.00 : 93.00 % RQD 100.00 % Core 222.00 - 225.00 : 73.00 % RQD 100.00 % Core  MINOR INTERVALS: Minor Interval: 125.2 - 126.15 MD, Mafic Dike Fine-grained, homogeneous, gray, plagioclase and pyroxene-bearing intrusive dyke. The upper and lower contacts are sharp at 70 and 60 degrees, respectively. The unit contains close to 100% feldspar within ~5cm of the contacts. Minor Interval: 177.1 - 177.8 MD, Mafic Dike Black, fine-grained, homogenous, non-mineralized, non-foliated, non-magnetic mafic intrusive, consisting of plagioclase and pyroxene. The upper and lower contacts are sharp at 50 and 55 degrees tca, respectively.							
223.86	237.77	4, Anorthosite / Anorthosite Gabbro This unit consists of a homogeneous, very coarse-grained, non-magnetic pegmatitic rock, consisting of ~80% bright white feldspar, quartz and biotite. The unit is non-foliated and not mineralized. The lower contact is brecciated Structure 234.80 - 234.85 : F Fractured, 60 Deg to CA RQD 225.00 - 228.00 : 76.00 % RQD 100.00 % Core 228.00 - 231.00 : 68.00 % RQD 100.00 % Core 231.00 - 234.00 : 62.00 % RQD 100.00 % Core 234.00 - 237.00 : 55.00 % RQD 100.00 % Core 237.00 - 240.00 : 64.00 % RQD 100.00 % Core							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
237.77	285.56	<p>5, Undivided Metasediments</p> <p>Highly inhomogeneous, commonly dark gray, fine-grained and moderately well-foliated, non-magnetic, locally garnet-bearing unit containing feldspar, pyroxene, quartz and alteration minerals in variable amounts.</p> <p>249.5 - 251.0m: garnet-rich section</p> <p>258 - 270m: more biotite-rich section (~20%), fine- medium-grained</p> <p>This unit is unlike the majority of rock intersected in the Ertelien area and could represent a partly recrystallized and homogenized section with gabbro-norite and gneissic precursor rocks.</p> <p>Mineralization</p> <p>251.35 - 251.54 : Py Pyrite, FG Fine Grained, 5% in shear, interstitially</p> <p>253.58 - 253.95 : Cpy Chalcopyrite, TR Trace, 0.5%</p> <p>253.58 - 253.95 : Py Pyrite, VN Veins, 3% in sub-cm-scale bands/veinlets</p> <p>254.40 - 254.47 : Po Pyrrhotite, SM Semi-Massive, 25% med-grained, recrystallized aggregates</p> <p>254.40 - 254.47 : Py Pyrite, SM Semi-Massive, 25% med-grained, recrystallized aggregates</p> <p>254.47 - 256.37 : Po Pyrrhotite, D Disseminated, 3%</p> <p>256.00 - 257.07 : Cpy Chalcopyrite, INT Interstitial, 1% remobilized with po</p> <p>256.00 - 257.07 : Po Pyrrhotite, INT Interstitial, 9% remobilized</p> <p>257.38 - 257.48 : Po Pyrrhotite, VN Veins, 5% remobilized in shear</p> <p>259.40 - 261.35 : Po Pyrrhotite, BB Blebby, 2% disseminated to blebby</p> <p>259.40 - 261.35 : Py Pyrite, BB Blebby, 3% disseminated to blebby</p> <p>265.30 - 265.31 : Po Pyrrhotite, VN Veins, 1% mm-scale veinlet</p> <p>268.05 - 268.10 : Cpy Chalcopyrite, PAT Patchy, 2%</p> <p>268.05 - 268.10 : Po Pyrrhotite, PAT Patchy, 3%</p> <p>272.25 - 273.00 : Cpy Chalcopyrite, INT Interstitial, 1%</p> <p>272.25 - 273.00 : Po Pyrrhotite, INT Interstitial, 5% remobilized</p> <p>275.15 - 275.35 : Cpy Chalcopyrite, SM Semi-Massive, 20% along shear 10 - 15 degrees tca</p> <p>276.90 - 277.35 : Py Pyrite, F Fracture Controlled, 5% in shear, interstitial, remobilized</p>							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		Structure							
		240.00 - 243.25 : F Fractured, 40 Deg to CA broken core, likely fault							
		251.00 - 252.00 : S Schistose, 88 Deg to CA shear semiparallel to ca, qz-rich, local bx							
		252.00 - 252.70 : F Fractured, 15 Deg to CA broken core							
		266.20 - 266.25 : F Fractured, 20 Deg to CA broken core							
		271.30 - 271.38 : S Schistose, 15 Deg to CA minor py							
		273.20 - 273.63 : S Schistose, 10 Deg to CA bx along contact, minor py, cpy, fsp							
		276.38 - 277.00 : F Fractured, 20 Deg to CA cpy along hangingwall contact, 5 - 10% py, cpy along footwall contact							
		277.60 - 281.25 : F Fractured, 10 Deg to CA broken core							
		285.20 - 285.43 : S Schistose, 20 Deg to CA silicified, minor garnet, bioite along contact							
		RQD							
		240.00 - 243.00 : 46.00 % RQD 100.00 % Core							
		243.00 - 246.00 : 42.00 % RQD 100.00 % Core							
		246.00 - 249.00 : 63.00 % RQD 100.00 % Core							
		249.00 - 252.00 : 61.00 % RQD 100.00 % Core							
		252.00 - 255.00 : 22.00 % RQD 100.00 % Core							
		255.00 - 258.00 : 67.00 % RQD 100.00 % Core							
		258.00 - 261.00 : 69.00 % RQD 100.00 % Core							
		261.00 - 264.00 : 55.00 % RQD 100.00 % Core							
		264.00 - 267.00 : 54.00 % RQD 100.00 % Core							
		267.00 - 270.00 : 48.00 % RQD 100.00 % Core							
		270.00 - 273.00 : 70.00 % RQD 100.00 % Core							
		273.00 - 276.00 : 56.00 % RQD 100.00 % Core							
		276.00 - 279.00 : 27.00 % RQD 100.00 % Core							
		279.00 - 282.00 : 25.00 % RQD 100.00 % Core							
		282.00 - 285.00 : 47.00 % RQD 100.00 % Core							
		285.00 - 288.00 : 84.00 % RQD 100.00 % Core							



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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
285.56	300.00	GAB, Gabbro	PG04702	286.00	287.50	1.50	0.1300	0.0600	0.0100
		Medium grained, dark grey, homogenous, weakly magnetic, massive gabbronorite composed of ~60-70% plagioclase and 30-40% pyroxenes (dark green).	PG04703	287.50	289.00	1.50	0.3200	0.2200	0.0300
		Pervasive blebby and disseminated mineralization.	PG04704	289.00	290.50	1.50	0.2200	0.4400	0.0100
		The lower contact of this unit was not reached as the hole was shut down.	PG04705	290.50	292.00	1.50	0.1900	0.1500	0.0100
		The hole was abandoned at 300m due to technical problems while drilling at this depth with a small standard drill.	PG04706	292.00	293.50	1.50	0.1800	0.1300	0.0100
		Mineralization	PG04707	293.50	295.00	1.50	0.1800	0.0800	0.0100
		285.56 - 300.00 : Po Pyrrhotite, D Disseminated, 2% pervasive, locally patchy	PG04708	295.00	296.50	1.50	0.1400	0.0600	0.0100
		RQD	PG04709	296.50	298.00	1.50	0.1900	0.2100	0.0100
		288.00 - 291.00 : 73.00 % RQD 100.00 % Core	PG04710	298.00	299.50	1.50	0.1900	0.1100	0.0300
		291.00 - 294.00 : 84.00 % RQD 100.00 % Core	PG04711	299.50	300.00	0.50	0.0500	0.0250	0.0100
		294.00 - 297.00 : 51.00 % RQD 100.00 % Core							
		297.00 - 300.00 : 80.00 % RQD 100.00 % Core							

## Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG04702	286.00	287.50	0.1300	0.0600	0.0100
PG04703	287.50	289.00	0.3200	0.2200	0.0300
PG04704	289.00	290.50	0.2200	0.4400	0.0100
PG04705	290.50	292.00	0.1900	0.1500	0.0100
PG04706	292.00	293.50	0.1800	0.1300	0.0100
PG04707	293.50	295.00	0.1800	0.0800	0.0100
PG04708	295.00	296.50	0.1400	0.0600	0.0100
PG04709	296.50	298.00	0.1900	0.2100	0.0100
PG04710	298.00	299.50	0.1900	0.1100	0.0300
PG04711	299.50	300.00	0.0500	0.0250	0.0100