

DETAILED LOG

Hole Number: ER2006-08

Units: METRIC

Project Name: Norway - South Norway	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -65.50
Project Number: 203	North: 6669264.30	North: 60.16	Collar Az: 55.00
Location: Baksjo	East: 557451.10	East: 10.03	Length: 172.40 (m)
	Elev: 380.50	Elev: 380.50	Start Depth: 0.00 (m)
Date Started: Jul 23, 2006	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Jul 27, 2006	Multishot Survey: N	Hole Size: TT46	Core Storage:
Logged By: blairt	Pulse EM Survey: N	Casing: Left in Hole, capped	Final Depth: 172.40 (m)

Comments:

Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	1.40	C, Casing							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
1.40	57.35	<p>DIOR, Diorite ORTHOGNEISS (gabbro / melanogabbro?)</p> <p>Fine grained (locally medium grained), well foliated, grey-white, strongly magnetic, homogenous orthogneiss composed of 35-45% amphiboles, 15% biotite, 5-10% garnets (clots, patches and rosettes) and 35-45% plagioclase. No visible quartz. Unit contains very fine grained dull grey magnetite throughout, resulting in a high magnetic susceptibility. A strong gneissosity is prevalent throughout the unit, at ~15-30 degrees tca.</p> <p>This unit contains dm-scale horizons where plagioclase content increases and decreases.</p> <p>This unit is unmineralized.</p> <p>The lower contact of this unit is sharp at 45 degrees tca and was based on the discernible appearance of quartz in the rock as well as a sedimentary affinity (quartz, biotite, garnets).</p> <p>Structure</p> <p>7.25 - 7.26 : G Gouge, 15 Deg to CA 17.40 - 17.41 : G Gouge, 20 Deg to CA 23.20 - 23.21 : G Gouge, 25 Deg to CA 33.30 - 33.31 : G Gouge, 20 Deg to CA 38.10 - 38.11 : G Gouge, 40 Deg to CA 46.10 - 46.11 : G Gouge, 15 Deg to CA 52.10 - 52.11 : G Gouge, 20 Deg to CA</p> <p>RQD</p> <p>1.40 - 3.00 : 76.00 % RQD 100.00 % Core 3.00 - 6.00 : 62.00 % RQD 100.00 % Core 6.00 - 9.00 : 60.00 % RQD 100.00 % Core 9.00 - 12.00 : 67.00 % RQD 100.00 % Core 12.00 - 15.00 : 67.00 % RQD 100.00 % Core 15.00 - 18.00 : 81.00 % RQD 100.00 % Core 18.00 - 21.00 : 73.00 % RQD 100.00 % Core 21.00 - 24.00 : 78.00 % RQD 100.00 % Core 24.00 - 27.00 : 63.00 % RQD 100.00 % Core 27.00 - 30.00 : 76.00 % RQD 100.00 % Core 30.00 - 33.00 : 89.00 % RQD 100.00 % Core 33.00 - 36.00 : 70.00 % RQD 100.00 % Core 36.00 - 39.00 : 28.00 % RQD 100.00 % Core</p> <p>BROKEN CORE</p> <p>39.00 - 42.00 : 35.00 % RQD 100.00 % Core</p> <p>BROKEN CORE</p>							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		RQD							
		42.00 - 45.00 : 27.00 % RQD 100.00 % Core							
		BROKEN CORE							
		45.00 - 48.00 : 19.00 % RQD 100.00 % Core							
		BROKEN CORE							
		48.00 - 51.00 : 29.00 % RQD 100.00 % Core							
		BROKEN CORE							
		51.00 - 54.00 : 67.00 % RQD 100.00 % Core							
		BROKEN CORE							
		54.00 - 57.00 : 67.00 % RQD 100.00 % Core							
		57.00 - 60.00 : 49.00 % RQD 100.00 % Core							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
57.35	129.00	<p>5, Undivided Metasediments PARAGNEISS</p> <p>Fine grained, well foliated, light grey, weakly to non-magnetic, heterogenous gneiss composed of ~5% garnets, 15-25% biotite, 10-15% amphiboles within a quartzofeldspathic groundmass. More melanocratic horizons (>40%) contain a higher percentage of poorly to moderately formed garnets.</p> <p>>118.5m: Epidotization of the host rock is apparent proximal to dm-scale felsic veinlets (granitic composition) as well as late (crosscutting gneissosity) microveinlets.</p> <p>This unit contains 5% cm scale felsic dyklets parallel to gneissic planes composed of Kspar, quartz and plagioclase.</p> <p>Local trace pyrite occurs parallel to gneissic planes.</p> <p>The lower contact of this unit is gradational and was based on the increased percentage of granitic veinlets/sweats/flooding as well as the disappearance of discernible paragneissic textures and affinities.</p> <p>Structure</p> <p>59.65 - 59.66 : G Gouge, 25 Deg to CA 64.50 - 64.51 : G Gouge, 40 Deg to CA 75.60 - 75.61 : G Gouge, 25 Deg to CA 82.80 - 82.81 : G Gouge, 40 Deg to CA 89.00 - 89.01 : G Gouge, 30 Deg to CA 96.80 - 96.81 : G Gouge, 40 Deg to CA 111.00 - 111.01 : G Gouge, 40 Deg to CA 118.90 - 118.91 : G Gouge, 25 Deg to CA</p> <p>RQD</p> <p>60.00 - 63.00 : 58.00 % RQD 100.00 % Core 63.00 - 66.00 : 83.00 % RQD 100.00 % Core 66.00 - 69.00 : 74.00 % RQD 100.00 % Core 69.00 - 72.00 : 63.00 % RQD 100.00 % Core 72.00 - 75.00 : 65.00 % RQD 100.00 % Core 75.00 - 78.00 : 73.00 % RQD 100.00 % Core 78.00 - 81.00 : 59.00 % RQD 100.00 % Core 81.00 - 84.00 : 95.00 % RQD 100.00 % Core 84.00 - 87.00 : 72.00 % RQD 100.00 % Core 87.00 - 90.00 : 57.00 % RQD 100.00 % Core 90.00 - 93.00 : 93.00 % RQD 100.00 % Core 93.00 - 96.00 : 88.00 % RQD 100.00 % Core 96.00 - 99.00 : 72.00 % RQD 100.00 % Core 99.00 - 102.00 : 94.00 % 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%
		<p>RQD</p> <p>102.00 - 105.00 : 87.00 % RQD 100.00 % Core</p> <p>105.00 - 108.00 : 75.00 % RQD 100.00 % Core</p> <p>108.00 - 111.00 : 54.00 % RQD 100.00 % Core</p> <p>111.00 - 114.00 : 54.00 % RQD 100.00 % Core</p> <p>114.00 - 117.00 : 93.00 % RQD 100.00 % Core</p> <p>117.00 - 120.00 : 80.00 % RQD 100.00 % Core</p> <p>120.00 - 123.00 : 90.00 % RQD 100.00 % Core</p> <p>123.00 - 126.00 : 70.00 % RQD 100.00 % Core</p> <p>126.00 - 129.00 : 75.00 % RQD 100.00 % Core</p> <p>MINOR INTERVALS:</p> <p>Minor Interval:</p> <p>99.47 - 107.9 GAB, Gabbro</p> <p>Mafic gneiss</p> <p>Fine grained, weakly foliated, dark grey-green, weakly magnetic, homogenous unit composed of 60% amphiboles-biotite, 5-10% poorly formed garnets (pale pink-brown) and plagioclase.</p> <p>The upper and lower contacts are both sharp at 50 degrees tca.</p> <p>Minor Interval:</p> <p>107.9 - 108.6 8, Dyke</p> <p>FELSIC DYKE</p> <p>Coarse grained, massive, non-magnetic, white-green-flesh coloured dyke? composed of 55% plagioclase, 20% Kspar and varying amounts of quartz, garnets, chlorite and biotite. This unit contains rare trace, pathcy pyrite.</p> <p>The upper and lower contacts of this unit are sharp at 50 and 40 degrees to the ca, respectively.</p>							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
129.00	164.75	<p>3, Granitic Augen Gneiss BRECCIATED GNEISS - UNKNOWN PRECURSOR? GRANITIC? GNEISS</p> <p>Fine grained, pale green to green to grey to locally black, non-magnetic, heterogenous gneiss composed of varying amounts of quartz, plagioclase, epidote, biotite+-muscovite and chlorite. The unit is pervasively altered (epidote and quartz) throughout.</p> <p>150.50-164.75m: Brecciated core containing 15-25% mm scale chlorite microfractures and microveinlets at various angles throughout the unit. Numerous shear and fault zones with quartz-plagioclase infilling occur throughout. Locally, pyrite cubes occur proximal to fault zones. The more intensely brecciated rock contains a dark black matrix (finer grained, chlorite) with mm to cm scale clasts (angular to semi-rounded). The unit is crosscut by 5% mm scale veinlets of granitic affinity (Kspar, quartz and green amphiboles?).</p> <p>Structure 136.75 - 136.76 : G Gouge, 25 Deg to CA 144.80 - 144.81 : G Gouge, 25 Deg to CA 150.50 - 150.51 : S Schistose, 15 Deg to CA 157.55 - 157.56 : F Fractured, 15 Deg to CA Fault gouge (1cm) along a quartz-plagioclase vein from 157.55-158 (ucon at 15, lcon at 20)</p> <p>RQD 129.00 - 132.00 : 88.00 % RQD 100.00 % Core 132.00 - 135.00 : 100.00 % RQD 100.00 % Core 135.00 - 138.00 : 80.00 % RQD 100.00 % Core 138.00 - 141.00 : 89.00 % RQD 100.00 % Core 141.00 - 144.00 : 100.00 % RQD 100.00 % Core 144.00 - 147.00 : 95.00 % RQD 100.00 % Core 147.00 - 150.00 : 76.00 % RQD 100.00 % Core 150.00 - 153.00 : 73.00 % RQD 100.00 % Core 153.00 - 156.00 : 78.00 % RQD 100.00 % Core 156.00 - 159.00 : 74.00 % RQD 100.00 % Core 159.00 - 162.00 : 70.00 % RQD 100.00 % Core 162.00 - 165.00 : 73.00 % RQD 100.00 % Core</p> <p>MINOR INTERVALS: Minor Interval: 157.55 - 158 8, Dyke Quartz-plagioclase vein.</p> <p>The upper and lower contacts are sharp at 15 and 20 degrees tca.</p>							

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		MINOR INTERVALS: Minor Interval: 158.93 - 159.13 8, Dyke Quartz and plagioclase vein. The upper and lower contacts are sharp at 20 and 25 degrees tca, respectively.							
164.75	172.40	8, Dyke Quartz-feldspar vein with 35-45% gneiss (granitic?) fragments (angular and rounded). This vein contains numerous vugs, with "geode" like crystals. The lower contact of this unit is unknown as the hole was shutdown. RQD 165.00 - 168.00 : 59.00 % RQD 100.00 % Core 168.00 - 171.00 : 65.00 % RQD 100.00 % Core 171.00 - 172.40 : 39.00 % RQD 100.00 % Core							