

DETAILED LOG

Hole Number: ER2006-07

Units: METRIC

Project Name: Norway - South Norway	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -53.00
Project Number: 203	North: 6669264.30	North: 60.16	Collar Az: 55.00
Location: Baksjo	East: 557451.10	East: 10.03	Length: 151.40 (m)
	Elev: 380.50	Elev: 380.50	Start Depth: 0.00 (m)
Date Started: Jul 20, 2006	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Jul 23, 2006	Multishot Survey: N	Hole Size: TT46	Final Depth: 151.40 (m)
Logged By: blairt	Pulse EM Survey: N	Casing: Left in Hole, capped	Core Storage:

Comments:

Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	0.60	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%
0.60	44.95	<p>DIOR, Diorite</p> <p>MAFIC GNEISS: ORTHOGNEISS?</p> <p>Fine grained, dark grey-green to green, well foliated (gneissosity), heterogenous, strongly to moderately magnetic gneiss composed of 5-10% poorly formed garnets, 25% biotite, 25% green amphiboles with a felsic groundmass (primarily plagioclase).</p> <p>Compositional banding within this unit occurs on a dm scale with more melanocratic horizons containing ~50% amphiboles, 20% biotite, 5% garnets within a felsic groundmass. Garnets are poorly formed and occur as clots and rosettes throughout the more mafic horizons. Locally, ksparr occurs within more quartzofeldspathic horizons.</p> <p>The magnetic susceptibility of this unit is quite high (average of 28.3×10^{-3} SI) and is attributed to very fine grained disseminated magnetite throughout the unit.</p> <p>Locally, rare pyrite occurs.</p> <p>The lower contact of this unit is relatively sharp and was based on the magnetic susceptibility of the rock as well as the increased presence of felsic (Qtz and plagioclase) material.</p> <p>Interp: Orthogneiss</p> <p>Structure</p> <p>4.10 - 4.11 : G Gouge, 25 Deg to CA</p> <p>13.90 - 13.91 : G Gouge, 30 Deg to CA</p> <p>20.30 - 20.31 : G Gouge, 40 Deg to CA</p> <p>32.50 - 32.51 : G Gouge, 30 Deg to CA</p> <p>37.30 - 37.31 : G Gouge, 45 Deg to CA</p> <p>RQD</p> <p>0.60 - 3.00 : 37.00 % RQD 100.00 % Core</p> <p>3.00 - 6.00 : 43.00 % RQD 100.00 % Core</p> <p>6.00 - 9.00 : 47.00 % RQD 100.00 % Core</p> <p>9.00 - 12.00 : 67.00 % RQD 100.00 % Core</p> <p>12.00 - 15.00 : 50.00 % RQD 100.00 % Core</p> <p>15.00 - 18.00 : 51.00 % RQD 100.00 % Core</p> <p>18.00 - 21.00 : 62.00 % RQD 100.00 % Core</p> <p>21.00 - 24.00 : 58.00 % RQD 100.00 % Core</p> <p>24.00 - 27.00 : 79.00 % RQD 100.00 % Core</p> <p>27.00 - 30.00 : 50.00 % RQD 100.00 % Core</p> <p>30.00 - 33.00 : 36.00 % RQD 100.00 % Core</p> <p>33.00 - 36.00 : 44.00 % RQD 100.00 % Core</p> <p>36.00 - 39.00 : 60.00 % 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%
		RQD							
		39.00 - 42.00 : 59.00 % RQD 100.00 % Core							
		42.00 - 45.00 : 68.00 % 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%
44.95	117.90	<p>5, Undivided Metasediments FELSIC GNEISS: PARAGNEISS?</p> <p>Fine grained, grey to pale green, moderately to well foliated, heterogenous, non-magnetic gneiss composed of 20% amphiboles, 15-25% biotite, trace to 5% garnet within a quartzofeldspathic groundmass.</p> <p>This unit is altered (epidotization) from ~66.9m to 108.80m. The core appears light green to olive green in colour with epidote not well formed (crystal structure). In more heavily altered and faulted horizons, plagioclase is altered beige with a greenish hue and is very soft to scratch (kaolinite?talc?).</p> <p>66.90 to ~73.00m: Brecciated core with semi-parallel to parallel veinlets of a fine grained material (chlorite? graphite?). Locally, an autobrecciated appearance is apparent (mm to cm scale semi-angular), along with white quartz veins +- cubic pyrite-filled veinlets. The upper contact of this unit is sharp at 35 degrees tca. Downhole of this fault zone, epidotization is prevalent throughout.</p> <p>87.25-87.60m: Low angle fault gouge (~10 degrees tca) which appears infiltrated with groundwater (friable gouge and weathered plagioclase and biotite). Vuggy quartzofeldspathic veinlets + carbonate are also apparent.</p> <p>89.5-90.20m: As 87.25-87.60m. Sharp faulting at 89.5m (25 degrees tca) and between 89.7-90.20m (10 degrees tca).</p> <p>Overall, this unit contains trace pyrite throughout.</p> <p>The lower contact of this unit is based on the visual appearance of discernible siliceous horizons (remanent bedding?) with alternating biotite and garnet-bearing horizons (pelites).</p> <p>Alteration 66.90 - 108.80 :EP Epidote, P Pervasive, S Strong</p> <p>Structure 47.90 - 47.91 : G Gouge, 30 Deg to CA 51.50 - 51.51 : G Gouge, 40 Deg to CA 55.05 - 55.06 : G Gouge, 30 Deg to CA 62.50 - 62.51 : G Gouge, 45 Deg to CA 66.00 - 66.01 : G Gouge, 10 Deg to CA 66.90 - 73.00 : F Fractured, 35 Deg to CA See major unit for description 73.50 - 73.51 : G Gouge, 40 Deg to CA 84.50 - 84.51 : G Gouge, 50 Deg to CA 87.25 - 87.60 : F Fractured, 10 Deg to CA See major unit for description. 89.50 - 90.20 : S Schistose, 25 Deg to CA See major unit for description</p>							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		Structure							
		92.50 - 92.52 : F Fractured, 10 Deg to CA							
		Mm scale gneissic fragments in a dark grey to black hard matrix (graphite?chlorite?). CORE IS BROKEN.							
		96.70 - 96.71 : G Gouge, 30 Deg to CA							
		100.00 - 100.01 : G Gouge, 20 Deg to CA							
		104.50 - 104.51 : G Gouge, 35 Deg to CA							
		111.50 - 111.51 : G Gouge, 30 Deg to CA							
		116.25 - 116.26 : G Gouge, 35 Deg to CA							
		RQD							
		45.00 - 48.00 : 27.00 % RQD 100.00 % Core							
		48.00 - 51.00 : 65.00 % RQD 100.00 % Core							
		51.00 - 54.00 : 81.00 % RQD 100.00 % Core							
		54.00 - 57.00 : 61.00 % RQD 100.00 % Core							
		57.00 - 60.00 : 89.00 % RQD 100.00 % Core							
		60.00 - 63.00 : 49.00 % RQD 100.00 % Core							
		63.00 - 66.00 : 67.00 % RQD 100.00 % Core							
		66.00 - 69.00 : 70.00 % RQD 100.00 % Core							
		69.00 - 72.00 : 47.00 % RQD 100.00 % Core							
		72.00 - 75.00 : 59.00 % RQD 100.00 % Core							
		75.00 - 78.00 : 78.00 % RQD 100.00 % Core							
		78.00 - 81.00 : 38.00 % RQD 100.00 % Core							
		81.00 - 84.00 : 60.00 % RQD 100.00 % Core							
		84.00 - 87.00 : 83.00 % RQD 100.00 % Core							
		87.00 - 90.00 : 67.00 % RQD 100.00 % Core							
		90.00 - 93.00 : 81.00 % RQD 100.00 % Core							
		93.00 - 96.00 : 76.00 % RQD 100.00 % Core							
		96.00 - 99.00 : 80.00 % RQD 100.00 % Core							
		99.00 - 102.00 : 72.00 % RQD 100.00 % Core							
		102.00 - 105.00 : 87.00 % RQD 100.00 % Core							
		105.00 - 108.00 : 78.00 % RQD 100.00 % Core							
		108.00 - 111.00 : 60.00 % RQD 100.00 % Core							
		111.00 - 114.00 : 76.00 % RQD 100.00 % Core							
		114.00 - 117.00 : 95.00 % RQD 100.00 % Core							
		117.00 - 120.00 : 50.00 % RQD 100.00 % Core							
		MINOR INTERVALS:							
		Minor Interval:							
		55.05 - 58.75 5, Undivided Metasediments							
		Horizon with mm to cm scale Kspar filled felsic "sweats" parallel to gneissocity.							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		MINOR INTERVALS: Minor Interval: 95.9 - 96.45 5, Undivided Metasediments CONDUCTIVE FAULT ZONE? Quartz-carbonate-pyrite +-graphite?chorite? healed fault zone. The upper contact of this contact is irregular; the lower contact is sharp at ~15 degrees to ca. Pyrite occurs as very fine grained cubes throughout the zone. Structure 95.90 - 96.45 : F Fractured, 15 Deg to CA							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
117.90	144.20	<p>3, Granitic Augen Gneiss BRECCIATED GNEISS - UNKNOWN PRECURSOR?</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>This unit is brecciated throughout as quartz+carbonate veining is prominent; with the main breccia zone at ~125-127.95m. Broken core occurs below 127.95m as a fault (gouge) at 10 degrees tca is apparent. 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>The unit contains rare trace cubic pyrite, primarily in more brecciated zones.</p> <p>Texture 125.00 - 127.95 : Bx Brecciated More prominent preccia zone. See major unit for description.</p> <p>Alteration 117.90 - 144.20 :Sil Silica, P Pervasive, M Moderate 117.90 - 144.20 :EP Epidote, P Pervasive, M Moderate</p> <p>Structure 121.10 - 121.11 : G Gouge, 25 Deg to CA 139.95 - 139.96 : G Gouge, 50 Deg to CA</p> <p>RQD 120.00 - 123.00 : 84.00 % RQD 100.00 % Core 123.00 - 126.00 : 98.00 % RQD 100.00 % Core 126.00 - 129.00 : 86.00 % RQD 100.00 % Core 129.00 - 132.00 : 97.00 % RQD 100.00 % Core 132.00 - 135.00 : 60.00 % RQD 100.00 % Core 135.00 - 138.00 : 87.00 % RQD 100.00 % Core 138.00 - 141.00 : 84.00 % RQD 100.00 % Core 141.00 - 144.00 : 68.00 % RQD 100.00 % Core 144.00 - 147.00 : 52.00 % RQD 100.00 % Core</p>							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
144.20	151.40	5, Undivided Metasediments GNEISS - PARA-? Fine grained, green-grey, non-magnetic, heterogenous, well foliated (gneissosity) gneiss composed of 10-30% biotite and 5% garnets within a quartzofeldspathic groundmass. This unit appears altered (epidotization, silicification) proximal to crosscutting and foliation parallel veinlets (quartz and granitic affinity), This unit contains trace pyrite parallel to gneissosity. The lower contact of this unit is unkonwn as the hole was shutdown. Alteration 144.20 - 151.40 :Sil Silica, V Vein, M Moderate 144.20 - 151.40 :EP Epidote, PT Patchy, M Moderate Structure 144.40 - 144.41 : G Gouge, 45 Deg to CA 149.50 - 149.51 : G Gouge, 40 Deg to CA RQD 147.00 - 150.00 : 54.00 % RQD 100.00 % Core 150.00 - 151.40 : 87.00 % RQD 100.00 % Core							