

DETAILED LOG

Hole Number: ER2006-24

Units: METRIC

Project Name: Norway - South Norway	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -74.40
Project Number: 203	North: 6659599.20	North: 60.07	Collar Az: 60.80
Location: Ertelia	East: 557978.00	East: 10.04	Length: 290.55 (m)
	Elev: 158.30	Elev: 158.30	Start Depth: 0.00 (m)
Date Started: Nov 19, 2006	Collar Survey: N	Plugged: N	Contractor: Drillcon Core AB
Date Completed: Nov 24, 2006	Multishot Survey: N	Hole Size: BQ	Core Storage:
Logged By: J. Der Weduwen, larsw	Pulse EM Survey: N	Casing: Left in Hole, capped	Final Depth: 290.55 (m)

Comments:

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	60.80	-74.40	EZ	OK		25.00	61.40	-74.60	EZ	OK	
50.00	62.70	-74.60	EZ	OK		100.00	64.00	-74.50	EZ	OK	
150.00	66.50	-74.30	EZ	OK		220.00	69.30	-74.50	EZ	OK	

Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	2.40	C, Casing Overburden Casing pushed to 4.40m.							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
2.40	12.40	<p>GAB, Gabbro Gabbronorite Mottled medium grey/dark green and medium to coarse grained. Local fine orange garnets. An altered pyroxene - plagioclase assemblage Minor brown bronzite crystals - to 0.5 cm. 1% thin (10 to 40mm) pegmatite dykes. Local flat (0 to 15 deg.) serp filled fractures/faults</p> <p>11.95 - 12.40 Appears as a garnet amphibole gneiss - adjacent to contact with pegmatite dyke. Fabric (gneissosity? at 50 deg. to core axis. Probable contact alteration effect of pegmatite.</p> <p>Structure 4.15 - 4.47 : FLT Fault, 15 Deg to CA Serp - carb filled fault zone. 4.55 - 4.57 : FLT Fault, 30 Deg to CA badly broken serp - carb filled fault. 6.04 - 6.70 : FLT Fault, 10 Deg to CA Partially broken serp-carb fault at 0 to 15 deg. to CA 7.05 - 7.80 : FLT Fault, 30 Deg to CA badly broken serpentine filled fault. 8.00 - 8.15 : FLT Fault, 10 Deg to CA Badly broken serpentine filled fault.</p> <p>RQD 2.40 - 2.75 : 0.00 % RQD 100.00 % Core 2.75 - 3.75 : 62.00 % RQD 100.00 % Core 3.75 - 4.40 : 92.20 % RQD 100.00 % Core 4.40 - 7.60 : 42.50 % RQD 100.00 % Core 7.60 - 8.10 : 50.00 % RQD 100.00 % Core 8.10 - 12.00 : 68.20 % RQD 100.00 % Core 12.00 - 16.90 : 51.40 % RQD 100.00 % Core</p>							

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12.40	16.65	PEG, Pegmatite Pegmatite Dyke Upper contact at 55 to 60 deg. to CA Predominantly a very coarse fractured white quartz with 5 to 10% coarse black biotite. Biotite filling fractures and as coarse sheets. Lower portion of dyke brecciated and matrix filled by pale green chlorite and fine brown-black biotite. Lower contact at 30 to 55 deg. to CA. 15.64 - 16.65 Brecciated pegmatite with rounded quartz fragments in a fine pale green to brown - black matrix (chlorite and biotite). Structure 12.40 - 12.42 : UC Upper Contact, 55 Deg to CA 16.60 - 16.65 : LC Lower Contact, 30 Deg to CA							

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From (m)	To (m)	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
	<p>69.30 - 69.39 Pegmatite Dyke Upper contact at 75 deg. and lower contact at 60 deg. to CA White quartz with 5 to 10% fine biotite. Altered margins - as before.</p> <p>@ 70.03, A 50mm pegmatite dyke at 50 deg. to CA. Altered margins to 10cm - garnet-chlorite.</p> <p>@ 70.55, A 60mm pegmatite dyke at 50 to 55 deg. to CA 5% fracture controlled biotite.</p> <p>@ 76.20: 7cm qz and garnet-bearing sweat, 40 degrees tca, sheared and fuzzy margins</p> <p>@ 84.96: 15cm pegmatitic z/bsp veinlet, margins sharp but irregular; wallrock biotite-bearing and medium grained</p> <p>@ 131.4 - 133.76: series of 3 dm-scale pegmatitic sweats; partly with sheared contacts. Wallrock is bioite-bearing, medium graind and appears recrystallized</p> <p>@ 151 - 156: rock exhibitbs stripey appearance, locally with cm-scale qz/bsp veinlets. This texture is not foliation, but rather looks like a bleaching feature</p> <p>@ 178.65 - 179.85: series of 2 dm-scale pegmatitic sweats with fuzzy, ill-defined contacts. The wallrock is biotite-bearing and medium-grained</p> <p>@ 189.80 - 190.1: pegmatitic sweat, minor py along lower contact</p> <p>@ 188.61 - 188.93: 10f with minor pegmatitic sweats along UC and LC; contacts are sharp but irg.</p> <p>Mineralization 161.55 - 167.00 : Cpy Chalcopyrite, BB Blebby, 0.5% associated with po 161.55 - 167.00 : PO Pyrrhotite, BB Blebby, 3% remobilized, interstitial 173.50 - 178.00 : Cpy Chalcopyrite, BB Blebby, 0.5% associated with po 173.50 - 178.00 : PO Pyrrhotite, BB Blebby, 3% remobilized, interstitial; wallrock rexx with large px</p> <p>Structure 17.95 - 18.70 : F Fractured, 10 Deg to CA flat 2 to 5mm chl-carb filled. 19.90 - 20.35 : F Fractured, 10 Deg to CA undulating 2 to 10mm chl-carb filled fracture. 23.70 - 23.90 : F Fractured, 10 Deg to CA broken 10mm serpentin filled fracture.</p>							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		Structure							
		26.20 - 26.20 : F Fractured, 20 Deg to CA Broken, serpentine filled fracture.							
		34.38 - 34.45 : FLT Fault, 40 Deg to CA broken chl-carb fault gouge.							
		35.33 - 35.35 : FLT Fault, 60 Deg to CA broken chl-carb filled fault.							
		37.80 - 38.00 : F Fractured, 20 Deg to CA Broken serpentine filled fracture.							
		40.24 - 40.26 : FLT Fault, 75 Deg to CA 15 to 20mm pegmatite filled fault - sheared chloritic contacts.							
		40.55 - 40.58 : FLT Fault, 60 Deg to CA Chl-carb filled fault.							
		40.60 - 41.00 : F Fractured, 10 Deg to CA Flat, branching serpentine filled fracture.							
		42.80 - 43.20 : F Fractured, 10 Deg to CA Partially broken, serpentine filled fracture.							
		56.58 - 56.80 : F Fractured, 15 Deg to CA Partially broken, 5 to 10mm serpentine filled fracture.							
		58.70 - 58.72 : FLT Fault, 70 Deg to CA faulted lower contact of peg. dyke.							
		64.48 - 64.64 : F Fractured, 15 Deg to CA 10 to 15mm serpentine filled fracture.							
		80.74 - 81.10 : FLT Fault, 50 Deg to CA partially healed (qz/fsp), fault gouge, serpentinized							
		82.73 - 82.77 : SHR Shear, 40 Deg to CA serpentinized, footwall med. grained along contact							
		84.73 - 84.74 : SHR Shear, 40 Deg to CA serpentinized							
		86.15 - 86.17 : SHR Shear, 30 Deg to CA serpentinized, brecciated							
		92.17 - 92.56 : F Fractured, 70 Deg to CA broken core, minor serpentinization, UC and LC sheared							
		92.90 - 93.90 serpentinized, subparallel tca							
		96.75 - 96.90 : SHR Shear, 40 Deg to CA set of serpentinized shears, very minor broken core							
		97.44 - 97.46 : SHR Shear, 30 Deg to CA serpentinized							
		118.36 - 118.37 : SHR Shear, 50 Deg to CA serpentinized							
		126.60 - 127.43 : FLT Fault, 15 Deg to CA broken core, serpentinized							
		131.17 - 131.18 : SHR Shear, 35 Deg to CA serpentinized							
		136.45 - 137.00 : FLT Fault, 30 Deg to CA broken core, serpentinized, locally fault gouge							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		Structure							
		141.07 - 141.27 : FLT Fault, 60 Deg to CA							
		broken core, serpentinized							
		141.55 - 151.60 : SHR Shear, 20 Deg to CA							
		serpentinized, minor brecciation							
		149.15 - 149.16 : SHR Shear, 25 Deg to CA							
		serpentinized							
		RQD							
		16.90 - 19.00 : 31.40 % RQD 100.00 % Core							
		19.00 - 22.55 : 76.10 % RQD 100.00 % Core							
		22.55 - 25.45 : 40.00 % RQD 100.00 % Core							
		25.45 - 30.00 : 82.30 % RQD 100.00 % Core							
		30.00 - 34.05 : 64.20 % RQD 100.00 % Core							
		34.05 - 35.05 : 84.00 % RQD 100.00 % Core							
		35.05 - 36.50 : 89.70 % RQD 100.00 % Core							
		36.50 - 38.45 : 70.80 % RQD 100.00 % Core							
		38.45 - 40.00 : 71.00 % RQD 100.00 % Core							
		40.00 - 41.50 : 44.70 % RQD 100.00 % Core							
		41.50 - 43.85 : 64.70 % RQD 100.00 % Core							
		43.85 - 47.70 : 72.20 % RQD 100.00 % Core							
		47.70 - 50.70 : 93.30 % RQD 100.00 % Core							
		50.70 - 56.90 : 94.50 % RQD 100.00 % Core							
		56.90 - 60.60 : 65.10 % RQD 100.00 % Core							
		60.60 - 63.90 : 91.00 % RQD 100.00 % Core							
		63.90 - 67.50 : 61.10 % RQD 100.00 % Core							
		67.50 - 69.20 : 33.50 % RQD 100.00 % Core							
		69.20 - 74.70 : 88.40 % RQD 100.00 % Core							
		74.70 - 76.00 : 66.90 % RQD 100.00 % Core							
		76.00 - 77.20 : 73.30 % RQD 100.00 % Core							
		77.20 - 79.25 : 70.20 % RQD 100.00 % Core							
		79.25 - 81.60 : 24.70 % RQD 100.00 % Core							
		81.60 - 83.65 : 71.70 % RQD 100.00 % Core							
		83.65 - 86.15 : 91.20 % RQD 100.00 % Core							
		86.15 - 88.00 : 64.30 % RQD 100.00 % Core							
		88.00 - 91.10 : 100.00 % RQD 100.00 % Core							
		91.10 - 93.90 : 52.50 % RQD 100.00 % Core							
		93.90 - 97.25 : 95.20 % RQD 100.00 % Core							
		97.25 - 101.70 : 82.50 % RQD 100.00 % Core							
		101.70 - 103.35 : 86.60 % 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							
		103.35 - 106.85 : 89.70 % RQD 100.00 % Core							
		106.85 - 111.00 : 90.80 % RQD 100.00 % Core							
		111.00 - 114.85 : 83.40 % RQD 100.00 % Core							
		114.85 - 118.35 : 67.10 % RQD 100.00 % Core							
		118.35 - 121.25 : 87.20 % RQD 100.00 % Core							
		121.25 - 123.85 : 83.20 % RQD 100.00 % Core							
		123.85 - 130.70 : 75.00 % RQD 100.00 % Core							
		130.70 - 132.15 : 72.40 % RQD 100.00 % Core							
		132.15 - 133.75 : 60.00 % RQD 100.00 % Core							
		133.75 - 139.30 : 82.90 % RQD 100.00 % Core							
		139.30 - 141.50 : 82.30 % RQD 100.00 % Core							
		141.50 - 144.70 : 84.40 % RQD 100.00 % Core							
		144.70 - 149.15 : 98.20 % RQD 100.00 % Core							
		149.15 - 152.00 : 70.20 % RQD 100.00 % Core							
		152.00 - 154.20 : 89.10 % RQD 100.00 % Core							
		154.20 - 159.00 : 96.50 % RQD 100.00 % Core							
		159.00 - 165.00 : 95.00 % RQD 100.00 % Core							
		165.00 - 167.50 : 80.00 % RQD 100.00 % Core							
		167.50 - 171.25 : 95.20 % RQD 100.00 % Core							
		171.25 - 175.10 : 93.50 % RQD 100.00 % Core							
		175.10 - 176.40 : 100.00 % RQD 100.00 % Core							
		176.40 - 178.50 : 81.00 % RQD 100.00 % Core							
		178.50 - 180.50 : 90.50 % RQD 100.00 % Core							
		180.50 - 184.25 : 97.30 % RQD 100.00 % Core							
		184.25 - 188.20 : 94.90 % RQD 100.00 % Core							
		188.20 - 192.80 : 80.40 % RQD 100.00 % Core							
		MINOR INTERVALS:							
		Minor Interval:							
		44.32 - 45.8 APL, Aplite Dike							
		Sericitic Dyke							
		Upper contact very indistinct, but at 60 deg. to CA.							
		Medium to dark buff-coloured and fine grained.							
		Strongly sericitic throughout.							
		Weakly fractured - chl and qtz filled.							
		Minor patchy disseminated Pyrrhotite.							
		Lower contact at 60 to 70 deg. to CA.							
		Structure							
		44.32 - 44.34 : UC Upper Contact, 60 Deg to CA							
		45.78 - 45.80 : LC Lower Contact, 65 Deg to CA							

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		<p>MINOR INTERVALS:</p> <p>Minor Interval: 67.12 - 68.92 DIOR, Diorite Mafic Dyke (Diorite?) Upper contact sharp at 60 deg. to CA Dark grey, fine grained and massive Minor quartz stringers Has altered margins -similar to those about pegmatite dykes. Lower contact marked by 50mm pegmatite dyke at 50 deg. to CA Structure 67.12 - 67.14 : UC Upper Contact, 60 Deg to CA sharp 68.90 - 68.92 : LC Lower Contact, 40 Deg to CA marked by peg. dyke. Minor Interval: 98.73 - 101.61 4, Anorthosite / Anorthosite Gabbro UC: sharp 30 degrees tca, LC: sharp 50 degrees tca; wallrock bioite-bearing, likely rexx Minor Interval: 108.28 - 110.05 4, Anorthosite / Anorthosite Gabbro UC and LC are sharp at 50 and 60 degrees tca, respectively. Locally, the unit is brecciated. The wallrock is biotite-bearing and medium-grained. Minor Interval: 114.66 - 117.75 MD, Mafic Dike fine-grained, massive, non-magnetic, non-foliated, non-mineralized. UC broken, ~80 degrees tca, LC fairly sharp at 60 degrees tca, minor fsp along contact Minor Interval: 184.24 - 186.79 4, Anorthosite / Anorthosite Gabbro Fuzzy contacts, biotite-rich wallrock</p>							

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190.10	206.80	7, Undivided Mafic Intrusive Intermixed unit containing gneissic and gabbro-noritic parts. The gneiss is well foliated and contains a variable ratio of rock forming minerals (feldspar, pyroxene, garnet, alteration minerals). The gabbro-norite is non-foliated and has the same characteristics as the main body of rock. This unit is a transitional unit at the contact of gabbro-norite to gneiss. Structure 192.60 - 192.85 : FLT Fault, 40 Deg to CA fault in gneissic rock, no serpentin 193.28 - 193.35 : SHR Shear, 40 Deg to CA serpentized, in gabbro-noritic part 195.30 - 195.55 : FLT Fault, 45 Deg to CA broken core, in gneissic rock 196.70 - 197.55 : FLT Fault, 45 Deg to CA fault zone, broken core, some fault gouge, upper part with qz infill, minor bx, tr. py along ?later fractures RQD 192.80 - 194.45 : 61.70 % RQD 100.00 % Core 194.45 - 195.80 : 40.70 % RQD 100.00 % Core 195.80 - 198.25 : 33.10 % RQD 100.00 % Core 198.25 - 199.50 : 88.00 % RQD 100.00 % Core 199.50 - 204.00 : 96.00 % RQD 100.00 % Core 204.00 - 208.20 : 73.80 % 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							
		240.00 - 245.10 : 94.10 % RQD 100.00 % Core							
		245.10 - 249.00 : 82.10 % RQD 100.00 % Core							
		249.00 - 251.30 : 77.80 % RQD 100.00 % Core							
		251.30 - 257.40 : 88.50 % RQD 100.00 % Core							
		257.40 - 260.30 : 86.20 % RQD 100.00 % Core							
		260.30 - 261.20 : 33.30 % RQD 100.00 % Core							
		261.20 - 264.40 : 76.60 % RQD 100.00 % Core							
		264.40 - 267.50 : 61.00 % RQD 100.00 % Core							
		267.50 - 270.85 : 50.70 % RQD 100.00 % Core							
		270.85 - 276.00 : 93.20 % RQD 100.00 % Core							
		276.00 - 281.10 : 94.30 % RQD 100.00 % Core							
		281.10 - 285.00 : 91.80 % RQD 100.00 % Core							
		285.00 - 289.00 : 84.00 % RQD 100.00 % Core							
		289.00 - 290.55 : 87.10 % RQD 100.00 % Core							