

DETAILED LOG

Hole Number: ER2006-21

Units: METRIC

Project Name: Norway - South Norway	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -86.30
Project Number: 203	North: 6659710.20	North: 60.07	Collar Az: 333.00
Location: Ertelia	East: 558044.36	East: 10.04	Length: 416.05 (m)
	Elev: 172.92	Elev: 172.92	Start Depth: 0.00 (m)
Date Started: Oct 27, 2006	Collar Survey: N	Plugged: N	Contractor:
Date Completed: Nov 07, 2006	Multishot Survey: N	Hole Size: NQ	Core Storage:
Logged By: larsw	Pulse EM Survey: N	Casing: Left in Hole, capped	Final Depth: 416.05 (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		-86.30	EZ	OK							

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	5.90	C, Casing RQD 2.30 - 6.00 : 31.00 % RQD 100.00 % Core Fault zone							

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Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
5.90	380.80	7, Undivided Mafic Intrusive	PG04880	335.10	336.00	0.90	0.1000	0.0700	0.0100
		This unit consists of a fine- to medium-grained dark gray, plagioclase and pyroxene-bearing, non-foliated, trace mineralized, commonly non-magnetic gabbro-norite. The rock is coarser-grained near faults and shears where fluids seem to have triggered recrystallization. The rock is very biotite-rich within ~50cm of pegmatitic minor units.	PG04881	336.00	337.20	1.20	0.1200	0.0700	0.0100
		The unit is extensively cut by faults and shears.	PG04882	337.20	337.65	0.45	0.3800	1.4200	0.0700
		Quartz-feldspar pegmatitic at 109.55 - 110.4m	PG04883	337.65	338.00	0.35	0.1400	0.0800	0.0100
		~146 - 159m: higher magnetic susceptibility (~25 - 50) due to fine-grained magnetite; rock is weakly to moderately foliated	PG04884	338.00	338.38	0.38	0.1800	0.1200	0.0100
		181.70 - 184.20m: Four dm-scale anorthosite xenoliths; wall rock is coarse-grained and weakly foliated	PG04885	338.38	339.50	1.12	0.1300	0.0800	0.0100
		~287 - 300m and 310 - 320m: higher magnetic susceptibility (~25 - 50) due to fine-grained magnetite; rock is weakly to moderately foliated							
		5 - 10% sulfide mineralization at 337.2 - 338.4m (see "Mineralization" for more detail); large, up to 1.5cm pyroxene crystals associated with sulfides.							
		Mineralization							
		327.00 - 337.00 : Po Pyrrhotite, BB Blebby, 5% higher amount and larger blebs than common in rest of core							
		337.20 - 338.40 : Cpy Chalcopyrite, BB Blebby, 2% remobed in veins and blebs, associated with po							
		337.20 - 338.40 : Po Pyrrhotite, BB Blebby, 7% remobed in veins and blebs, associated with cpy							
		Structure							
		5.90 - 17.75 : F Fractured, 35 Deg to CA Fault zone, broken core, minor fault gouge, serpentized							
		21.27 - 21.31 : S Schistose, 50 Deg to CA serpentized							
		22.04 - 22.11 : S Schistose, 35 Deg to CA serpentized							
		36.49 - 36.54 : S Schistose, 35 Deg to CA serpentized							
		43.80 - 44.10 : S Schistose, 30 Deg to CA serpentized, minor brecciation							
		47.00 - 47.80 : F Fractured, 35 Deg to CA broken core, serpentized, fault gouge							
		58.50 - 59.50 parallel to core axis, serpentized							
		95.60 - 96.00 : F Fractured, 30 Deg to CA broken core, serpentized							
		96.50 - 96.60 : S Schistose, 35 Deg to CA serpentized							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		Structure							
		99.03 - 99.13 : S Schistose, 35 Deg to CA serpentinized							
		102.80 - 103.15 : S Schistose, 15 Deg to CA serpentinized							
		104.17 - 104.25 : S Schistose, 70 Deg to CA							
		105.35 - 107.45 : S Schistose, 0 Deg to CA parallel to core axis, serpentinized							
		119.54 - 119.79 : S Schistose, 40 Deg to CA serpentinized							
		123.80 - 124.00 : S Schistose, 40 Deg to CA serpentinized, minor broken core							
		134.00 - 134.30 : S Schistose, 10 Deg to CA serpentinized							
		139.44 - 139.60 : S Schistose, 25 Deg to CA serpentinized							
		140.00 - 141.30 : F Fractured, 35 Deg to CA major fault, broken core, fault gouge, serpentinized							
		195.56 - 195.70 : S Schistose, 40 Deg to CA serpentinized							
		222.02 - 222.15 : S Schistose, 45 Deg to CA serpentinized, minor py							
		229.84 - 230.25 : F Fractured, 50 Deg to CA broken core, attitude estimated							
		239.05 - 239.55 : F Fractured, 40 Deg to CA fault gouge, serpentinized							
		242.70 - 242.80 : S Schistose, 30 Deg to CA							
		243.64 - 244.00 broken core, magnetite, py, cpy bearing							
		250.59 - 251.00 : S Schistose, 60 Deg to CA multiple serpentinized shears							
		260.80 - 260.90 : S Schistose, 30 Deg to CA serpentinized							
		267.13 - 267.30 : S Schistose, 50 Deg to CA serpentinized							
		271.74 - 271.80 : S Schistose, 60 Deg to CA serpentinized							
		282.20 - 282.30 : S Schistose, 30 Deg to CA serpentinized							
		284.50 - 284.61 : S Schistose, 40 Deg to CA serpentinized							
		285.85 - 285.97 : S Schistose, 40 Deg to CA serpentinized							
		297.06 - 297.15 : S Schistose, 25 Deg to CA serpentinized							
		302.23 - 302.35 : S Schistose, 20 Deg to CA serpentinized							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		Structure							
		313.03 - 313.20 : S Schistose, 40 Deg to CA serpentinized							
		324.14 - 324.31 : S Schistose, 30 Deg to CA serpentinized							
		329.05 - 329.75 : F Fractured, 15 Deg to CA broken core, fault gouge, serpentinized							
		338.33 - 338.44 : S Schistose, 20 Deg to CA serpentinized							
		350.95 - 353.00 : F Fractured, 40 Deg to CA major fault, serpentinized, broken core							
		356.10 - 356.50 : S Schistose, 25 Deg to CA serpentinized							
		358.20 - 358.60 : F Fractured, 10 Deg to CA fault gouge, broken core							
		360.90 - 361.05 : S Schistose, 30 Deg to CA serpentinized							
		374.00 - 378.40 : F Fractured, 40 Deg to CA major fault, very broken core, serpentinized							
		RQD							
		6.00 - 9.00 : 13.00 % RQD 100.00 % Core							
		Fault zone							
		9.00 - 12.00 : 33.00 % RQD 100.00 % Core							
		Fault zone							
		12.00 - 15.00 : 58.00 % RQD 100.00 % Core							
		Fault zone							
		15.00 - 18.00 : 16.00 % RQD 100.00 % Core							
		Fault zone							
		18.00 - 21.00 : 92.00 % RQD 100.00 % Core							
		21.00 - 24.00 : 92.00 % RQD 100.00 % Core							
		24.00 - 27.00 : 100.00 % RQD 100.00 % Core							
		27.00 - 30.00 : 93.00 % RQD 100.00 % Core							
		30.00 - 33.00 : 84.00 % RQD 100.00 % Core							
		33.00 - 36.00 : 87.00 % RQD 100.00 % Core							
		36.00 - 39.00 : 96.00 % RQD 100.00 % Core							
		39.00 - 42.00 : 98.00 % RQD 100.00 % Core							
		42.00 - 45.00 : 91.00 % RQD 100.00 % Core							
		45.00 - 48.00 : 42.00 % RQD 100.00 % Core							
		48.00 - 51.00 : 100.00 % RQD 100.00 % Core							
		51.00 - 54.00 : 74.00 % RQD 100.00 % Core							
		54.00 - 57.00 : 92.00 % RQD 100.00 % Core							
		57.00 - 60.00 : 82.00 % RQD 100.00 % Core							
		60.00 - 63.00 : 82.00 % 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							
		63.00 - 66.00 : 85.00 % RQD 100.00 % Core							
		66.00 - 69.00 : 98.00 % RQD 100.00 % Core							
		69.00 - 72.00 : 98.00 % RQD 100.00 % Core							
		72.00 - 75.00 : 54.00 % RQD 100.00 % Core							
		75.00 - 78.00 : 88.00 % RQD 100.00 % Core							
		78.00 - 81.00 : 86.00 % RQD 100.00 % Core							
		81.00 - 84.00 : 84.00 % RQD 100.00 % Core							
		84.00 - 87.00 : 83.00 % RQD 100.00 % Core							
		87.00 - 90.00 : 91.00 % RQD 100.00 % Core							
		90.00 - 93.00 : 93.00 % RQD 100.00 % Core							
		93.00 - 96.00 : 93.00 % RQD 100.00 % Core							
		96.00 - 99.00 : 83.00 % RQD 100.00 % Core							
		99.00 - 102.00 : 91.00 % RQD 100.00 % Core							
		102.00 - 105.00 : 80.00 % RQD 100.00 % Core							
		105.00 - 108.00 : 54.00 % RQD 100.00 % Core							
		108.00 - 111.00 : 100.00 % RQD 100.00 % Core							
		111.00 - 114.00 : 95.00 % RQD 100.00 % Core							
		114.00 - 117.00 : 53.00 % RQD 100.00 % Core							
		117.00 - 120.00 : 81.00 % RQD 100.00 % Core							
		120.00 - 123.00 : 97.00 % RQD 100.00 % Core							
		123.00 - 126.00 : 56.00 % RQD 100.00 % Core							
		126.00 - 129.00 : 65.00 % RQD 100.00 % Core							
		129.00 - 132.00 : 95.00 % RQD 100.00 % Core							
		132.00 - 135.00 : 76.00 % RQD 100.00 % Core							
		135.00 - 138.00 : 97.00 % RQD 100.00 % Core							
		138.00 - 141.00 : 58.00 % RQD 100.00 % Core							
		141.00 - 144.00 : 64.00 % RQD 100.00 % Core							
		144.00 - 147.00 : 92.00 % RQD 100.00 % Core							
		147.00 - 150.00 : 94.00 % RQD 100.00 % Core							
		150.00 - 153.00 : 98.00 % RQD 100.00 % Core							
		153.00 - 156.00 : 88.00 % RQD 100.00 % Core							
		156.00 - 159.00 : 89.00 % RQD 100.00 % Core							
		159.00 - 162.00 : 84.00 % RQD 100.00 % Core							
		162.00 - 165.00 : 95.00 % RQD 100.00 % Core							
		165.00 - 168.00 : 98.00 % RQD 100.00 % Core							
		168.00 - 171.00 : 73.00 % RQD 100.00 % Core							
		171.00 - 174.00 : 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							
		174.00 - 177.00 : 87.00 % RQD 100.00 % Core							
		177.00 - 180.00 : 83.00 % RQD 100.00 % Core							
		180.00 - 183.00 : 88.00 % RQD 100.00 % Core							
		183.00 - 186.00 : 90.00 % RQD 100.00 % Core							
		186.00 - 189.00 : 91.00 % RQD 100.00 % Core							
		189.00 - 192.00 : 86.00 % RQD 100.00 % Core							
		192.00 - 195.00 : 60.00 % RQD 100.00 % Core							
		195.00 - 198.00 : 94.00 % RQD 100.00 % Core							
		198.00 - 201.00 : 100.00 % RQD 100.00 % Core							
		201.00 - 204.00 : 98.00 % RQD 100.00 % Core							
		204.00 - 207.00 : 98.00 % RQD 100.00 % Core							
		207.00 - 210.00 : 100.00 % RQD 100.00 % Core							
		210.00 - 213.00 : 84.00 % RQD 100.00 % Core							
		213.00 - 216.00 : 79.00 % RQD 100.00 % Core							
		216.00 - 219.00 : 100.00 % RQD 100.00 % Core							
		219.00 - 222.00 : 93.00 % RQD 100.00 % Core							
		222.00 - 225.00 : 86.00 % RQD 100.00 % Core							
		225.00 - 228.00 : 99.00 % RQD 100.00 % Core							
		228.00 - 231.00 : 71.00 % RQD 100.00 % Core							
		231.00 - 234.00 : 95.00 % RQD 100.00 % Core							
		234.00 - 237.00 : 95.00 % RQD 100.00 % Core							
		237.00 - 240.00 : 57.00 % RQD 100.00 % Core							
		240.00 - 243.00 : 89.00 % RQD 100.00 % Core							
		243.00 - 246.00 : 87.00 % RQD 100.00 % Core							
		246.00 - 249.00 : 100.00 % RQD 100.00 % Core							
		249.00 - 252.00 : 83.00 % RQD 100.00 % Core							
		252.00 - 255.00 : 84.00 % RQD 100.00 % Core							
		255.00 - 258.00 : 78.00 % RQD 100.00 % Core							
		258.00 - 261.00 : 82.00 % RQD 100.00 % Core							
		261.00 - 264.00 : 90.00 % RQD 100.00 % Core							
		264.00 - 267.00 : 91.00 % RQD 100.00 % Core							
		267.00 - 270.00 : 95.00 % RQD 100.00 % Core							
		270.00 - 273.00 : 100.00 % RQD 100.00 % Core							
		273.00 - 276.00 : 72.00 % RQD 100.00 % Core							
		276.00 - 279.00 : 72.00 % RQD 100.00 % Core							
		279.00 - 282.00 : 78.00 % RQD 100.00 % Core							
		282.00 - 285.00 : 93.00 % 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							
		285.00 - 288.00 : 95.00 % RQD 100.00 % Core							
		288.00 - 291.00 : 90.00 % RQD 100.00 % Core							
		291.00 - 294.00 : 88.00 % RQD 100.00 % Core							
		294.00 - 297.00 : 88.00 % RQD 100.00 % Core							
		297.00 - 300.00 : 89.00 % RQD 100.00 % Core							
		300.00 - 303.00 : 94.00 % RQD 100.00 % Core							
		303.00 - 306.00 : 94.00 % RQD 100.00 % Core							
		306.00 - 309.00 : 100.00 % RQD 100.00 % Core							
		309.00 - 312.00 : 94.00 % RQD 100.00 % Core							
		312.00 - 315.00 : 88.00 % RQD 100.00 % Core							
		315.00 - 318.00 : 79.00 % RQD 100.00 % Core							
		318.00 - 321.00 : 85.00 % RQD 100.00 % Core							
		321.00 - 324.00 : 82.00 % RQD 100.00 % Core							
		324.00 - 327.00 : 88.00 % RQD 100.00 % Core							
		327.00 - 330.00 : 57.00 % RQD 100.00 % Core							
		330.00 - 333.00 : 100.00 % RQD 100.00 % Core							
		333.00 - 336.00 : 93.00 % RQD 100.00 % Core							
		336.00 - 339.00 : 93.00 % RQD 100.00 % Core							
		339.00 - 342.00 : 89.00 % RQD 100.00 % Core							
		342.00 - 345.00 : 100.00 % RQD 100.00 % Core							
		345.00 - 348.00 : 100.00 % RQD 100.00 % Core							
		348.00 - 351.00 : 92.00 % RQD 100.00 % Core							
		351.00 - 354.00 : 30.00 % RQD 100.00 % Core							
		Fault							
		354.00 - 357.00 : 81.00 % RQD 100.00 % Core							
		357.00 - 360.00 : 67.00 % RQD 100.00 % Core							
		360.00 - 363.00 : 74.00 % RQD 100.00 % Core							
		363.00 - 366.00 : 77.00 % RQD 100.00 % Core							
		366.00 - 369.00 : 94.00 % RQD 100.00 % Core							
		369.00 - 372.00 : 90.00 % RQD 100.00 % Core							
		372.00 - 375.00 : 27.00 % RQD 100.00 % Core							
		Fault							
		375.00 - 378.00 : 0.00 % RQD 100.00 % Core							
		Fault							
		378.00 - 381.00 : 23.00 % RQD 100.00 % Core							
		Fault							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		<p>MINOR INTERVALS:</p> <p>Minor Interval: 72.65 - 78.7 4, Anorthosite / Anorthosite Gabbro Very coarse-grained, pegmatitic, quartz and feldspar-bearing rock; abundant biotite, especially along contacts. Gneissic raft at 74.80 - 75.95m. The upper and lower contacts are sharp at 70 and 90 degrees tca, respectively.</p> <p>The immediate wall rock to this unit is coarse-grained, recrystallized and biotite-rich</p> <p>Minor Interval: 160.6 - 162.63 MD, Mafic Dike Fine grained, dark black, non-magnetic, non-foliated mafic intrusive. Contains some coarse-grained plagioclase crystals. The upper contact is sharp at 45 degrees tca; the lower contact is sharp but irregular. The rock is plagioclase rich within ~5cm of the contact.</p> <p>Minor Interval: 167.03 - 167.93 MD, Mafic Dike Fine-grained, dark gray, non-mineralized, non-magnetic, non-foliated mafic intrusive. The upper contact is sharp at 80 degrees tca, the lower contact is sharp but irregular.</p> <p>Minor Interval: 189.77 - 191.87 4, Anorthosite / Anorthosite Gabbro Very coarse-grained, quartz and plagioclase-bearing, pegmatitic, non-foliated, non-magnetic, non-mineralized rock. The upper contact is sharp at 50 degrees tca, the lower contact is sharp but irregular.</p> <p>Minor Interval: 273.23 - 278.41 5, Undivided Metasediments Well-foliated (50 degrees tca), feldspar, pyroxene, mica-bearing, fine to medium-grained, locally garnet-bearing. The upper contact is sharp at 60 degrees tca; the lower contact is sheared at 50 degrees tca.</p> <p>This unit is not mineralized.</p>							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%	
380.80	416.05	5, Undivided Metasediments Inhomogeneous, well foliated, non-magnetic, non-mineralized, plagioclase, pyroxene, minor quartz, and garnet-bearing massive unit. The mineralogy varies on a dm-scale; foliation is commonly ~40degrees tca. The core is quite blocky. The lower contact of this unit is unknown since the hole was shut down RQD 381.00 - 384.00 : 87.00 % RQD 100.00 % Core 384.00 - 387.00 : 90.00 % RQD 100.00 % Core 387.00 - 390.00 : 44.00 % RQD 100.00 % Core 390.00 - 393.00 : 29.00 % RQD 100.00 % Core 393.00 - 396.00 : 33.00 % RQD 100.00 % Core 396.00 - 399.00 : 56.00 % RQD 100.00 % Core 399.00 - 402.00 : 66.00 % RQD 100.00 % Core 402.00 - 405.00 : 56.00 % RQD 100.00 % Core 405.00 - 408.00 : 47.00 % RQD 100.00 % Core 408.00 - 411.00 : 25.00 % RQD 100.00 % Core 411.00 - 414.00 : 61.00 % RQD 100.00 % Core 414.00 - 416.05 : 45.00 % RQD 100.00 % Core								

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG04880	335.10	336.00	0.1000	0.0700	0.0100
PG04881	336.00	337.20	0.1200	0.0700	0.0100
PG04882	337.20	337.65	0.3800	1.4200	0.0700
PG04883	337.65	338.00	0.1400	0.0800	0.0100
PG04884	338.00	338.38	0.1800	0.1200	0.0100
PG04885	338.38	339.50	0.1300	0.0800	0.0100