

Hole Number: ER2006-13

Units: METRIC

Project Name: Norway - South Norway	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -45.00
Project Number: 203	North: 6653648.00	North: 60.02	Collar Az: 282.00
Location: Sigdal	East: 533811.00	East: 9.61	Length: 74.25 (m)
	Elev: 663.00	Elev: 663.00	Start Depth: 0.00 (m)
Date Started: Sep 25, 2006	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Sep 26, 2006	Multishot Survey: N	Hole Size: TT46	Core Storage:
Logged By: blairt	Pulse EM Survey: N	Casing: Left in Hole, capped	Final Depth: 74.25 (m)

Comments:

## Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	34.00	36.00	2.00	0.3355	0.2445	0.0168

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	2.70	C, Casing							
2.70	19.94	7, Undivided Mafic Intrusive GABBRO  Massive, homogenous, non- to weakly magnetic, medium grained, green-grey gabbro composed of 50-60% plagioclase and 40-50% green pyroxenes. Rusty fractures (groundwater infiltration) occur to a depth of 9.20m.  This unit is unmineralized.  The lower contact of this unit is sharp at 70 degrees tca along a mm-scale, very fine grained reaction rim.  RQD 2.70 - 6.00 : 76.00 % RQD 100.00 % Core 6.00 - 9.00 : 75.00 % RQD 100.00 % Core 9.00 - 12.00 : 91.00 % RQD 100.00 % Core 12.00 - 15.00 : 97.00 % RQD 100.00 % Core 15.00 - 18.00 : 94.00 % RQD 100.00 % Core 18.00 - 21.00 : 91.00 % 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%
19.94	25.40	MD, Mafic Dike	PG04715	22.00	22.62	0.62	0.0250	0.0250	0.0100
		INTERMIXED ANORTHOISTE - MAFIC DYKES? - MINERALIZED PYROXENITE - INTERMEDIATE GNEISS (see minor intervals for descriptions).	PG04716	22.62	23.44	0.82	0.1500	0.2400	0.0200
		RQD	PG04717	23.44	24.10	0.66	0.6200	0.6700	0.0600
		21.00 - 24.00 : 86.00 % RQD 100.00 % Core	PG04718	24.10	25.00	0.90	0.0250	0.0250	0.0100
		24.00 - 27.00 : 98.00 % RQD 100.00 % Core							
		MINOR INTERVALS:							
		Minor Interval:							
		20.03 - 21.57 4, Anorthosite / Anorthosite Gabbro							
		Pale green, homogenous, non-magnetic, massive, fine to medium grained anorthositic unit composed of 90% plagioclase (locally altered to a pale green) and 10% biotite-chlorite.							
		The upper and lower contacts of this unit are both sharp at 70 degrees tca.							
		Minor Interval:							
		21.57 - 22.62 MD, Mafic Dike							
		Very fine grained, dark green to black, homogenous, well foliated mafic dyke? composed of 85% pyroxenes (+biotite-chlorite) and 15% plagioclase.							
		21.57m - 22.35m: Intermixed mafic dyke? apophyses with a highly foliated gabbro? The gabbro? appears as dark grey, very fine grained and non-magnetic. Discernible plagioclase phenocrysts occur as well as biotite; fine grained nature makes it difficult to describe mineral assemblages.							
		Structure							
		21.70 - 21.71 : S1 First Foliation, 70 Deg to CA							
		Minor Interval:							
		22.62 - 24.1 7, Undivided Mafic Intrusive							
		MINERALIZED GABBRO							
		Dark grey, massive, homogenous, fine to medium grained gabbro composed of 80% dark green pyroxenes (+ 10% black biotite) and 10% plagioclase.							
		Both contacts are sharp at 60 degrees to the ca.							
		This unit contains disseminated to net-textured sulphides; predominantly pyrrhotite, although chalcopyrite occurs as patchy sulphides ("flooded" horizons).							
		Mineralization							
		22.62 - 23.44 : Cpy Chalcopyrite, D Disseminated, 0.5%							
		Trace							
		22.62 - 23.44 : Po Pyrrhotite, D Disseminated, 7%							
		Sharp upper and lower contacts at 60 and 50 degrees to the ca, respectively							
		23.45 - 24.10 : Cpy Chalcopyrite, D Disseminated, 2%							
		23.45 - 24.10 : Po Pyrrhotite, NT Net-Textured, 43%							
		40-50% net-textured pyrrhotite							

# DETAILED LOG

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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:                      24.1 - 25.4 MD, Mafic Dike                      Very fine grained, dark green to black, homogenous, well foliated mafic dyke?                      composed of 85% pyroxenes (+biotite-chlorite) and 15% plagioclase.</p> <p>24.44m - 24.46m: Sulphide veinlet (35% net-textured pyrrhotite) at 60 degrees tca.</p> <p>The lower contact of this unit is sharp at 80 degrees tca.</p> <p>Mineralization                      24.44 - 24.46 : Po Pyrrhotite, NT Net-Textured, 35%                      At 60 degrees tca</p> <p>Structure                      24.66 - 24.67 : S1 First Foliation, 60 Deg to CA</p>							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
25.40	74.25	7, Undivided Mafic Intrusive GABBRO	PG04719	34.00	35.55	1.55	0.1600	0.0600	0.0100
			PG04720	35.55	36.00	0.45	0.9400	0.8800	0.0400
			PG04721	36.00	37.00	1.00	0.0800	0.0600	0.0100
		<p>Fine to medium grained, white and green (locally dark grey), massive to weakly foliated, non-magnetic, homogenous unit composed of 35-45% plagioclase (white, subhedral to anhedral), 50-60% pyroxenes (green) and 5% biotite-chlorite. The unit appears coarser grained from 27.15m to the lower contact.</p> <p>This unit is unmineralized.</p> <p>The lower contact of this unit is unknown as the hole was shutdown.</p> <p>Mineralization 35.55 - 36.00 : Py Pyrite, MG Medium Grained, 10% Vuggy, sugary pyrite +- chalcopyrite splashes</p> <p>Structure 52.80 - 52.81 : S1 First Foliation, 60 Deg to CA Foliated, sheared gabbro between 2 sericitized mafic dyklets.</p> <p>RQD 27.00 - 30.00 : 90.00 % RQD 100.00 % Core 30.00 - 33.00 : 89.00 % RQD 100.00 % Core 33.00 - 36.00 : 87.00 % RQD 100.00 % Core 36.00 - 39.00 : 86.00 % RQD 100.00 % Core 39.00 - 42.00 : 91.00 % RQD 100.00 % Core 42.00 - 45.00 : 100.00 % RQD 100.00 % Core 45.00 - 48.00 : 96.00 % RQD 100.00 % Core 48.00 - 51.00 : 100.00 % RQD 100.00 % Core 51.00 - 54.00 : 95.00 % RQD 100.00 % Core 54.00 - 57.00 : 90.00 % RQD 100.00 % Core 57.00 - 60.00 : 98.00 % RQD 100.00 % Core 60.00 - 63.00 : 89.00 % RQD 100.00 % Core 63.00 - 66.00 : 87.00 % RQD 100.00 % Core 66.00 - 69.00 : 85.00 % RQD 100.00 % Core 69.00 - 72.00 : 77.00 % RQD 100.00 % Core 72.00 - 74.25 : 80.00 % 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%
		<p>MINOR INTERVALS:  Minor Interval:  25.4 - 30.16 5, Undivided Metasediments  SHEARED INTERMEDIATE GNEISS?</p> <p>Fine grained, white and dark grey, well foliated, non-magnetic, heterogenous unit composed of 35-60% plagioclase, 15-20 pyroxenes and 15-20% biotite / chlorite. This unit is coarser grained downhole from 27.15m; this unit could be a sheared gabbro as well.  Minor Interval:  30.16 - 32.45 MD, Mafic Dike  As described from 22.35m - 22.62m.  1cm wide quartz vein which contains cubic pyrite occurs at 31.35m (at 50 degrees tca).</p> <p>The upper and lower contacts of this unit are sharp at 60 and 30 degrees tca, respectively.  Minor Interval:  46.3 - 47.48 8, Dyke  Quartz-plagioclase (85%) and 15% biotite vein.</p> <p>The upper and lower contacts of this unit are sharp at 45 and 40 degrees tca, respectively.  Minor Interval:  52.37 - 53.15 4, Anorthosite / Anorthosite Gabbro  Fine grained, cream to pale brown-green, well foliated anorthositic veinlets; mafic minerals have been sericitized.</p> <p>This unit has a sheared gabbro from 52.70m - 52.96m, which has a prominent foliation of 60 degrees tca.</p> <p>The upper and lower contacts of this unit are both sharp at 60 degrees tca.</p>							

## Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG04715	22.00	22.62	0.0250	0.0250	0.0100
PG04716	22.62	23.44	0.1500	0.2400	0.0200
PG04717	23.44	24.10	0.6200	0.6700	0.0600
PG04718	24.10	25.00	0.0250	0.0250	0.0100
PG04719	34.00	35.55	0.1600	0.0600	0.0100

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Sample Type ASSAY					
PG04720	35.55	36.00	0.9400	0.8800	0.0400
PG04721	36.00	37.00	0.0800	0.0600	0.0100