

# DETAILED LOG

Hole Number: ER2006-14

Units: METRIC

Project Name: Norway - South Norway	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -45.00
Project Number: 203	North: 6653531.00	North: 60.02	Collar Az: 282.00
Location: Sigdal	East: 533771.00	East: 9.61	Length: 77.80 (m)
	Elev: 656.00	Elev: 656.00	Start Depth: 0.00 (m)
Date Started: Sep 27, 2006	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Sep 28, 2006	Multishot Survey: N	Hole Size: TT46	Final Depth: 77.80 (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	2.00	C, Casing							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
2.00	17.70	<p>5, Undivided Metasediments INTERMEDIATE GNEISS</p> <p>Fine to medium grained, non-magnetic, well foliated, grey unit composed of 10-15% pyroxenes and 30% biotite within a quartzofeldspathic groundmass.</p> <p>This unit is unmineralized.</p> <p>The lower contact of this unit is sharp at 50 degrees tca, along a 10cm wide plagioclase veinlet.</p> <p>Structure 13.00 - 13.01 : S1 First Foliation, 35 Deg to CA</p> <p>RQD 2.00 - 5.00 : 92.00 % RQD 100.00 % Core 5.00 - 8.00 : 85.00 % RQD 100.00 % Core 8.00 - 11.00 : 78.00 % RQD 100.00 % Core 11.00 - 14.00 : 100.00 % RQD 100.00 % Core 14.00 - 17.00 : 95.00 % RQD 100.00 % Core 17.00 - 20.00 : 92.00 % RQD 100.00 % Core</p> <p>MINOR INTERVALS: Minor Interval: 4.85 - 9.2 7, Undivided Mafic Intrusive Fine grained, dark green, homogenous, non-magnetic, massive to weakly foliated gabbro composed of 60% green pyroxenes, 10% biotite and 30% plagioclase.</p> <p>The upper contact of this unit is chilled (very fine grained gabbro, mm scale alteration halo) at 15 degrees to the ca. The lower contact of this unit is sharp at 60 degrees tca, but lost within sheared core (rusty fractures).</p> <p>5.35 - 5.50m (30 degrees upper contact / 20 degrees lower contact) - Medium to coarse grained, cream white-peach, massive, undulating plagioclase-quartz vein with weathered pyrite cubes (rusty).</p> <p>6.75 - 7.37m (5 degrees upper contact / irregular lower contact) - Medium to coarse grained, cream white-peach, massive, undulating plagioclase-quartz vein with weathered pyrite cubes (rusty).</p> <p>Structure 9.10 - 9.20 : S Schistose, 60 Deg to CA Rusty fracturing</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%
17.70	25.25	<p>7, Undivided Mafic Intrusive</p> <p>Dark green, medium grained, homogenous, non-magnetic, weakly foliated to massive gabbro composed of 60-75% pyroxenes, 10% biotite and 15-25% plagioclase.</p> <p>RQD                      20.00 - 23.00 : 73.00 % RQD 100.00 % Core                      23.00 - 26.00 : 67.00 % RQD 100.00 % Core</p> <p>MINOR INTERVALS:                      Minor Interval:                      22.65 - 25.25 5, Undivided Metasediments                      INTERMIXED GNEISS (~60%) AND FINE GRAINED, CHLORITIZED GABBRO (40%)</p> <p>Gneiss appears fine grained, grey, well foliated unit composed of 15-20% biotite/chlorite and trace garnets in a quartz-rich (+plagioclase) groundmass.</p> <p>Gabbro appears fine grained, homogenous, well foliated unit composed of chlorite/biotite and 10% plagioclase.</p> <p>Intermixed units are cm to dm-scale, with a prominent foliation of 70 degrees tca the ca throughout.</p> <p>Structure                      23.90 - 24.10 : S Schistose, 70 Deg to CA</p>							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
25.25	43.05	7, Undivided Mafic Intrusive MINERALIZED GABBRO	PG04722	35.00	36.10	1.10	0.0250	0.0250	0.0100
			PG04723	36.10	37.50	1.40	0.1400	0.2000	0.0200
			PG04724	37.50	38.28	0.78	0.0900	0.1100	0.0100
			PG04726	38.28	38.60	0.32	0.0250	0.0250	0.0100
			PG04727	38.60	40.00	1.40	0.0600	0.0500	0.0100
			PG04728	40.00	41.50	1.50	0.0800	0.1100	0.0100
			PG04729	41.50	43.05	1.55	0.0900	0.0250	0.0200
		<p>Fine to very fine grained, light green, homogenous, non-magnetic, massive to weakly foliated gabbro composed of 85% pyroxenes (+ biotite / chlorite) and 15% plagioclase. This unit appears weakly chloritized.</p> <p>36.10 - 43.05m: Mineralized zone containing numerous microveinlets of sulphides (po, cpy) throughout. Fine grained, disseminated pyrrhoite (+cpy) occurs within this horizon as well, totalling ~ 5-8% sulphides. LOOKS LIKE WE JUST DRILLED OFF THE SIDE OF SOMETHING!</p> <p>38.28 - 38.60m: Anorthositic breccia with a chlorite-rich matrix. Brecciated fragments appear semi-rounded and cm scaled. 2-5% cubic pyrite occurs within this zone. The upper contact is sharp but irregular, the lower contact is sharp at 35 degrees tca.</p> <p>Mineralization</p> <p>36.10 - 43.05 : Cpy Chalcopyrite, STR Stringers, 2%</p> <p>36.10 - 43.05 : Po Pyrrhotite, STR Stringers, 5%</p> <p>RQD</p> <p>26.00 - 29.00 : 98.00 % RQD 100.00 % Core</p> <p>29.00 - 32.00 : 100.00 % RQD 100.00 % Core</p> <p>32.00 - 35.00 : 81.00 % RQD 100.00 % Core</p> <p>35.00 - 38.00 : 92.00 % RQD 100.00 % Core</p> <p>38.00 - 41.00 : 94.00 % RQD 100.00 % Core</p> <p>41.00 - 44.00 : 86.00 % RQD 100.00 % Core</p>							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
43.05	77.80	7, Undivided Mafic Intrusive Medium grained, green-grey, homogenous, massive to weakly foliated gabbro composed of 50-60% pyroxenes, 5-10% biotite / chlorite and 35-45% plagioclase. This unit is unmineralized.  43.05 - 46.05m: Intermixed siliceous gneiss and chloritized gabbro.  The lower contact of this unit is unknown as the hole was shutdown. RQD 44.00 - 47.00 : 92.00 % RQD 100.00 % Core 47.00 - 50.00 : 100.00 % RQD 100.00 % Core 50.00 - 53.00 : 100.00 % RQD 100.00 % Core 53.00 - 56.00 : 100.00 % RQD 100.00 % Core 56.00 - 59.00 : 98.00 % RQD 100.00 % Core 59.00 - 62.00 : 100.00 % RQD 100.00 % Core 62.00 - 65.00 : 94.00 % RQD 100.00 % Core 65.00 - 68.00 : 95.00 % RQD 100.00 % Core 68.00 - 71.00 : 92.00 % RQD 100.00 % Core 71.00 - 74.00 : 97.00 % RQD 100.00 % Core 74.00 - 77.80 : 87.00 % RQD 100.00 % Core  MINOR INTERVALS: Minor Interval: 68.85 - 76.43 7, Undivided Mafic Intrusive Fine to medium grained, dark green, homogenous, massive gabbro composed of 25-30% plagioclase and 70-75% pyroxenes. Very fine grained, chlorite-rich chill contacts occur on the upper and lower contacts (razor sharp at 45 and 30 degrees to the ca, respectively).  Likely same gabbro as described from 4.85-9.2m (chilled contacts, late intrusive).	PG04730	43.05	44.00	0.95	0.0250	0.0250	0.0100

## Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG04722	35.00	36.10	0.0250	0.0250	0.0100
PG04723	36.10	37.50	0.1400	0.2000	0.0200
PG04724	37.50	38.28	0.0900	0.1100	0.0100
PG04726	38.28	38.60	0.0250	0.0250	0.0100
PG04727	38.60	40.00	0.0600	0.0500	0.0100
PG04728	40.00	41.50	0.0800	0.1100	0.0100
PG04729	41.50	43.05	0.0900	0.0250	0.0200

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Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type ASSAY PG04730	43.05	44.00	0.0250	0.0250	0.0100