

Hole Number: ES2005-42

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -76.00
Project Number: 201	North: 6803277.46	North: 61.36	Collar Az: 228.00
Location: Surface	East: 534543.54	East: 9.65	Length: 36.00 (m)
	Elev: 877.30	Elev: 877.30	Start Depth: 0.00 (m)
Date Started: Aug 12, 2005	Collar Survey: Y	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Aug 13, 2005	Multishot Survey: N	Hole Size: TT46	Core Storage: Strand Fjellstue
Logged By: blairt	Pulse EM Survey: N	Casing: Left in Hole, capped	Final Depth: 36.00 (m)

Comments: Purpose: To test UTEM conductor ESP\_24\_20 on L9500E, approximately 30m grid east of the centre of the modelled conductive plate (Conductivity = 2000 siemens).

Result: Intersected well mineralized norite (30-55% po-pn-cpy) from 2.55m to 9.75m (7.20m), followed by Espedalen complex anorthosites.

Assays: 1.05% Ni, 0.46% Cu, 0.06% Co / 7.20m (2.55-9.75m)  
including 1.32% Ni, 0.48% Cu, 0.07% Co / 2.95m (2.55-5.50m)

Lithological interpretation: Anorthositic terrain (Heim's rock suite 2a) intruded by mineralized mafic body (Heim's rock suite 2b).

## Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	2.55	5.50	2.95	1.3210	0.4836	0.0698
WEIGHTED	2.55	10.35	7.80	0.9969	0.4385	0.0579

Detailed Lithology			Assay Data						
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	2.55	C, Casing 15cm of mineralized oversize was recovered (2.55m-2.70m).							
2.55	9.75	6f, Norite Medium grained, equigranular, massive, weakly to moderately magnetic, dark green to brown norite composed of 75-90% dark green to black pyroxenes and 10-25% white plagioclase. Locally, some horizons appear more leucocratic whereas others appear pyroxenitic in composition.  This unit contains 30-55% heavily disseminated to net-textured sulphides (~95% pyrrhotite - 5% chalcopyrite) throughout. Within the more semi-massive regions (cm to locally dm scale), semi-rounded ultramafic clasts are present.  The lower contact of this unit is sharp at 75 degrees to the ca along a 1cm wide massive sulphide veinlet.  Mineralization 2.55 - 9.75 : Cpy Chalcopyrite, D Disseminated, 5% 2.55 - 9.75 : Po Pyrrhotite, NT Net-Textured, 40% 30-55% sulphides  RQD 2.55 - 5.00 : 92.00 % RQD 100.00 % Core 5.00 - 8.00 : 88.00 % RQD 100.00 % Core 8.00 - 11.00 : 90.00 % RQD 100.00 % Core	PG00304	2.55	4.00	1.45	1.2600	0.5700	0.0800
			PG00305	4.00	5.50	1.50	1.3800	0.4000	0.0600
			PG00306	5.50	7.00	1.50	0.8000	0.4800	0.0500
			PG00307	7.00	8.50	1.50	0.9300	0.4100	0.0600
			PG00308	8.50	9.75	1.25	0.8400	0.4600	0.0500

Hole Number: ES2005-42

Units: METRIC

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
9.75	27.40	<p>4s, Sausseritized/Tectonized Anorthosite</p> <p>Medium grained, light grey to white, moderately foliated, non-magnetic anorthosite / anorthositic gabbro.</p> <p>This unit is unmineralized.</p> <p>The lower contact of this unit is quite sharp at 70 degrees to the ca, although there are many broken, sheared pieces of anorthosite within a finer grained black matrix, which is concordant with foliation angles and cm wide mafic bands (doleritic affinity?).</p> <p>Mineralization</p> <p>10.34 - 10.35 : Po Pyrrhotite, M Massive, 95%</p> <p>RQD</p> <p>11.00 - 14.00 : 65.00 % RQD 100.00 % Core</p> <p>14.00 - 17.00 : 83.00 % RQD 100.00 % Core</p> <p>17.00 - 20.00 : 74.00 % RQD 100.00 % Core</p> <p>20.00 - 23.00 : 87.00 % RQD 100.00 % Core</p> <p>23.00 - 26.00 : 85.00 % RQD 100.00 % Core</p> <p>26.00 - 29.00 : 77.00 % RQD 100.00 % Core</p> <p>MINOR INTERVALS:</p> <p>Minor Interval:</p> <p>16.17 - 16.33 DIA, Diabase</p> <p>Fine grained, black to dark green, homogenous, weakly magnetic, massive dolerite dyke (Heim) with sharp but irregular contacts.</p> <p>The anorthosite up and down hole of this dyklet appears bright white (alteration halo from intrusive) - recrystallized?</p>	PG00309	9.75	10.35	0.60	0.3900	0.1400	0.0300
			PG00310	10.35	11.50	1.15	0.0600	0.0700	0.0100
27.40	36.00	<p>DIA, Diabase</p> <p>Medium grained, black to green and white, homogenous, moderately foliated, weakly to moderately magnetic dolerite composed of 40-50% plagioclase and 50-60% pyroxenes. This entire unit exhibits an ophitic texture. Chilled upper contact over 4cm.</p> <p>The unit is unmineralized.</p> <p>The lower contact is unknown as the hole was shutdown.</p> <p>RQD</p> <p>29.00 - 32.00 : 59.00 % RQD 100.00 % Core</p> <p>32.00 - 35.00 : 36.00 % RQD 100.00 % Core</p> <p>35.00 - 36.00 : 67.00 % RQD 100.00 % Core</p>							

Hole Number: ES2005-42

Units: METRIC

## Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG00304	2.55	4.00	1.2600	0.5700	0.0800
PG00305	4.00	5.50	1.3800	0.4000	0.0600
PG00306	5.50	7.00	0.8000	0.4800	0.0500
PG00307	7.00	8.50	0.9300	0.4100	0.0600
PG00308	8.50	9.75	0.8400	0.4600	0.0500
PG00309	9.75	10.35	0.3900	0.1400	0.0300
PG00310	10.35	11.50	0.0600	0.0700	0.0100