

Hole Number: ES2005-40

Units: METRIC

Project Name:	Norway - Espedalen	Primary Coordinates	Grid: UTM84-32N	Destination Coordinates	Grid: UTM:	Collar Dip:	-81.00
Project Number:	201	North:	6808532.67	North:	61.41	Collar Az:	230.00
Location:	Surface	East:	533189.14	East:	9.62	Length:	71.30 (m)
		Elev:	1218.59	Elev:	1218.59	Start Depth:	0.00 (m)
Date Started:	Aug 04, 2005	Collar Survey:	Y	Plugged:	N	Contractor:	Arctic Drilling A/S
Date Completed:	Aug 05, 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:	71.30 (m)

Comments: Purpose: Test UTEM conductor ESP\_09\_AW, within the centre of interpreted plate (Conductivity = 365 Siemens).

Result: The hole intersected a mineralized pyroxenite (5-10% fine grained pyrrhotite), which contained remobilized semi-massive pyrrhotite veinlets from 4.70-5.80m (1.10m) and 6.25m-6.60m (0.35m), to a total in-hole depth of 7.00m. The hole intersected an anorthosite from 7.00-71.30m, which was also the end of hole.

Assays: 0.37% Ni, 0.19% Cu, 0.05% Co / 1.90m (4.70-6.60m)

Borehole UTEM: Survey to be conducted in November 2005.

Lithological interpretation: Anorthositic terrain (Heim's rock suite 2a) intruded by narrow, locally mineralized, ultramafic to mafic bodies.

### Sample Averages

Average Type	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
WEIGHTED	4.70	6.60	1.90	0.3745	0.1841	0.0537

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							

Hole Number: ES2005-40

Units: METRIC

Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
2.00	7.00	PYXT, Pyroxenite	PG01386	2.00	3.15	1.15	0.1500	0.1100	0.0100
		<p>Fine to medium grained, massive to weakly foliated, homogenous, magnetic pyroxenite composed of 90-95% mm scale, equigranular, well developed dark green to pale brown pyroxenes (hypersthene? bronzite?), with 5-10% finely disseminated pyrrhotite (locally remobilized to cm scale veinlets). Within the more massive sulphide-rich regions, gangue minerals are primarily host rock pyroxenite which have been preferentially aligned to define foliation planes (60 degrees to the ca).</p> <p>This unit contains &lt;5% mm scale white to pale green serpentine veinlets at various angles to the core axis.</p> <p>The lower contact of this unit is sheared and lost within broken, disked core, at approximately 60 degrees to the core axis. Locally, the core is rusty on fractured or broken surfaces (groundwater infiltration).</p> <p>Mineralization  4.70 - 5.80 : Po Pyrrhotite, VN Veins, 30%  Fine grained to remobilized veinlets (up to 7cm wide).  6.25 - 6.60 : Po Pyrrhotite, VN Veins, 45%  Fine grained to remobilized veinlets</p> <p>RQD  2.00 - 5.00 : 78.00 % RQD 100.00 % Core  5.00 - 8.00 : 53.00 % RQD 100.00 % Core</p> <p>MINOR INTERVALS:  Minor Interval:  2 - 3.15 GAB, Gabbro  Fine grained, white-grey to grey, weakly magnetic, massive to weakly foliated gabbroite composed of 50-60% grey to white plagioclase, 45-50% mm scale, well developed brown pyroxenes (hypersthene? bronzite?) and 5-10% finely disseminated pyrrhotite.</p> <p>More mafic horizons occur (cm to dm scale), which contain higher concentrations of pyrrhotite.</p> <p>The lower contact of this unit is difficult to ascertain, but was determined on the absolute disappearance of visual plagioclase.</p> <p>Mineralization  2.00 - 3.15 : Po Pyrrhotite, FG Fine Grained, 7%</p>	PG01387	3.15	4.70	1.55	0.1500	0.0600	0.0200
			PG01388	4.70	5.80	1.10	0.4400	0.2600	0.0600
			PG01389	5.80	6.25	0.45	0.0700	0.0250	0.0100
			PG01390	6.25	6.60	0.35	0.5600	0.1500	0.0900
			PG01391	6.60	7.00	0.40	0.1400	0.1100	0.0100

Hole Number: ES2005-40

Units: METRIC

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
7.00	71.30	4, Anorthosite / Anorthosite Gabbro Medium grained (locally coarse grained - amalgamations of pyroxenes), white-grey to green-grey, massive to moderately foliated, homogenous anorthosite. The unit appears recrystallized, as plagioclase appears as discrete mm scale pink-grey crystals and pyroxenes are locally cm scale with green reaction rims (chlorite?).  This unit contains rare trace disseminated pyrrhotite.  The lower contact of this unit is unknown as the hole was shutdown. Structure 8.70 - 8.71 : S1 First Foliation, 60 Deg to CA 17.50 - 17.51 : S1 First Foliation, 55 Deg to CA 29.50 - 29.51 : S1 First Foliation, 60 Deg to CA 40.00 - 40.01 : S1 First Foliation, 50 Deg to CA 41.15 - 41.16 : S Schistose, 80 Deg to CA Broken core ~10cm uphole, rusty, likely shear zone 50.75 - 50.76 : S1 First Foliation, 45 Deg to CA 65.50 - 65.51 : S1 First Foliation, 45 Deg to CA RQD 8.00 - 11.00 : 87.00 % RQD 100.00 % Core 11.00 - 14.00 : 88.00 % RQD 100.00 % Core 14.00 - 17.00 : 95.00 % RQD 100.00 % Core 17.00 - 20.00 : 73.00 % RQD 100.00 % Core 20.00 - 23.00 : 61.00 % RQD 100.00 % Core 23.00 - 26.00 : 88.00 % RQD 100.00 % Core 26.00 - 29.00 : 94.00 % RQD 100.00 % Core 29.00 - 32.00 : 84.00 % RQD 100.00 % Core 32.00 - 35.00 : 89.00 % RQD 100.00 % Core 35.00 - 38.00 : 91.00 % RQD 100.00 % Core 38.00 - 41.00 : 88.00 % RQD 100.00 % Core 41.00 - 44.00 : 72.00 % RQD 100.00 % Core 44.00 - 47.00 : 89.00 % RQD 100.00 % Core 47.00 - 50.00 : 85.00 % RQD 100.00 % Core 50.00 - 53.00 : 94.00 % RQD 100.00 % Core 53.00 - 56.00 : 81.00 % RQD 100.00 % Core 56.00 - 59.00 : 93.00 % RQD 100.00 % Core 59.00 - 62.00 : 88.00 % RQD 100.00 % Core 62.00 - 65.00 : 95.00 % RQD 100.00 % Core 65.00 - 68.00 : 89.00 % RQD 100.00 % Core 68.00 - 71.30 : 77.00 % RQD 100.00 % Core	PG01392	7.00	8.00	1.00	0.0250	0.0250	0.0100

Hole Number: ES2005-40

Units: METRIC

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
		<p>MINOR INTERVALS:</p> <p>Minor Interval: 19.1 - 20.6 MD, Mafic Dike</p> <p>Fine grained, magnetic, weakly foliated (65 to the ca), homogenous, dark green mafic dyke? composed of 95% mafic minerals (pyroxene, chlorite?) and 5% plagioclase.</p> <p>This unit is unmineralized.</p> <p>The upper and lower contacts of this unit are sharp at 80 and 65 degrees to the ca, respectively.</p> <p>Minor Interval: 20.6 - 21.55 GAB, Gabbro</p> <p>Fine to medium grained, dark green-white, weakly foliated, weakly magnetic, homogenous gabbro? composed of ~50% plagioclase and 50% pyroxenes.</p> <p>The upper and lower contacts of this unit are sharp at 65 and 50 degrees to the ca, respectively.</p> <p>Minor Interval: 57 - 64.6 GAB, Gabbro</p> <p>Fine to medium grained, dark grey, highly magnetic, massive to weakly foliated unit composed of 40-60% plagioclase, 40-60% pyroxenes and 2-3% fine grained disseminated magnetite. This unit contains dm scale anorthosite rafts (58.5-58.95m; 61.15-61.40m) which have sharp but quite irregular contacts (undulating at times).</p> <p>The upper and lower contacts of this unit are sharp at 65 and 30 degrees to the ca, respectively.</p>							

## Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG01386	2.00	3.15	0.1500	0.1100	0.0100
PG01387	3.15	4.70	0.1500	0.0600	0.0200
PG01388	4.70	5.80	0.4400	0.2600	0.0600
PG01389	5.80	6.25	0.0700	0.0250	0.0100
PG01390	6.25	6.60	0.5600	0.1500	0.0900
PG01391	6.60	7.00	0.1400	0.1100	0.0100
PG01392	7.00	8.00	0.0250	0.0250	0.0100