

Hole Number: ES08-143

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -80.00
Project Number: 201	North: 6804946.00	North: 61.38	Collar Az: 230.00
Location: Surface	East: 533997.00	East: 9.64	Length: 137.11 (m)
	Elev: 721.00	Elev: 721.00	Start Depth: 0.00 (m)
Date Started: Apr 02, 2008	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Apr 04, 2008	Multishot Survey: N	Hole Size: BQ	Core Storage: Tyrstrand
Logged By: vbnor	Pulse EM Survey: N	Casing: Pulled	Final Depth: 137.11 (m)

Comments: Hole was designed to test the SE extension of mineralization approximately 120m beyond edge of UTEM plate 013.

RESULTS: Ultra mafic: 77.0-86.4m No significant sulphides.

## Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	16.50	CAS, Casing							
16.50	41.05	ANOR, Anorthosite Fine to medium grained, well foliated at 80-90 degrees to LCA, grey-white and minor green Anorthosite. No sulphides. Non magnetic, sericite, epidote, talc and chlorite alteration seen in banding and disseminated. Some green mafic dykes throughout section. Broken at top of section, but generally competent. Alteration 16.50 - 27.00 :WEA Weathering, ST Staining, W Weak on fracture surfaces. 16.50 - 41.05 :CHL Chlorite, F Fracture Controlled, W Weak on fracture surfaces and in healed fractures. 16.50 - 41.05 :TC Talc, P Pervasive, W Weak 16.50 - 41.05 :SE Sericite, B Banded, M Moderate ranges from weak to moderate. Structure 16.50 - 23.00 Broken, average length ~7cm. 34.10 - 34.25 Chlorite infill, average piece length ~5cm 34.90 - 35.10 Chlorite infill, average piece length ~5cm MINOR INTERVALS: Minor Interval: 37.8 - 39.25 MD, Mafic Dike Green, fine to medium grained, non-magnetic, Mafic Dyke. No sulphides, competent. Fine banding at 80-90 degrees to LCA. Upper and lower contact are sharp, with small 5-10cm veins of Anor/MD +/- 1m from contacts.							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
41.05	51.35	<p>MD, Mafic Dike</p> <p>Green, aphanitic to fine grained, non-magnetic, Mafic Dyke. No sulphides, competent. Fine banding at 80-90 degrees to LCA. Upper contact is sharp, with small 5-10cm veins of Anor/MD +/- 1m from contact. Lower contact is sharp on a fracture 80 degrees to LCA.</p> <p>Alteration</p> <p>49.80 - 50.25 :Alb Albite, BL Bleached, S Strong plagioclase gives rock white mottled with green.</p> <p>42.00 - 47.00 :WEA Weathering, ST Staining, W Weak Oxidation on fracture surfaces.</p> <p>MINOR INTERVALS: Minor Interval: 48.1 - 49.5 UM, Ultramafic Grey, very altered Ultra Mafic. 0.1% sulphides on fracture surfaces. Pervasive talc, chlorite, serpentine and magnetite alteration have destroyed all original fabric. Moderate coarse grained biotite. Very broken, average core length 10cm. Upper and lower contacts are sharp</p> <p>Mineralization</p> <p>48.10 - 49.50 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, FF Fracture Filling, 0.1%</p> <p>Alteration</p> <p>48.10 - 49.50 :MAG Magnetite, P Pervasive, M Moderate 48.10 - 49.50 :BIO Biotite, MO Mottled, M Moderate coarse grained. 48.10 - 49.50 :SERP Serpentine, P Pervasive, M Moderate 48.10 - 49.50 :CHL Chlorite, P Pervasive, S Strong 48.10 - 49.50 :TL Talc, P Pervasive, S Strong</p>	BL00230	51.00	51.90	0.90			
51.35	54.30	<p>ANOR, Anorthosite</p> <p>Fine to medium grained, well foliated at 80-90 degrees to LCA, grey-white and minor green Anorthosite. Non magnetic, sericite, epidote, talc and chlorite alteration seen in banding and disseminated. Several green mafic dykes throughout section. Very broken. Upper and lower contact are sharp.</p> <p>52.45-55.05m: 50% po with cp. 2 small veins &lt;3cm on either side at 52.4 and 53.5m</p> <p>Mineralization</p> <p>52.45 - 53.05 : PO Pyrrhotite, SM Semi-Massive, 40%</p> <p>Structure</p> <p>51.35 - 54.30 Very broken.</p>	BL00231	51.90	52.40	0.50			
			BL00232	52.40	53.00	0.60			
			BL00233	53.00	53.50	0.50			
			BL00234	53.50	54.50	1.00			

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
54.30	77.00	<p>MD, Mafic Dyke</p> <p>Green, aphanitic to fine grained, non-magnetic, Mafic Dyke. No sulphides, competent. Fine banding at 80-90 degrees to LCA. Upper and lower contacts are sharp, with small 5-10cm veins of Anor/MD/UM +/- 1m from contacts.</p> <p>Structure</p> <p>73.10 - 73.50 broken along fractures at 80-90 to LCA</p> <p>74.25 - 74.60</p> <p>MINOR INTERVALS:</p> <p>Minor Interval: 67.4 - 69.35 ANOR, Anorthosite as described above. Upper and lower contacts are sharp.</p> <p>Minor Interval: 74.25 - 76.4 ANOR, Anorthosite As described above.</p>							
77.00	86.40	<p>UM, Ultramafic</p> <p>Grey, very altered Ultra Mafic. 0.1% sulphides on fracture surfaces. Pervasive talc, chlorite, serpentine and magnetite alteration have destroyed all original fabric. Very broken, average core length 10cm. Upper and lower contacts are sharp with small dykes of MD/UM +/- 1.0 m from contacts.</p> <p>Mineralization</p> <p>77.00 - 86.40 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, F Fracture Controlled, 0.1% coating fractures, smeared.</p> <p>Alteration</p> <p>77.00 - 86.40 :MAG Magnetite, P Pervasive, M Moderate</p> <p>77.00 - 86.40 :SERP Serpentine, P Pervasive, M Moderate</p> <p>77.00 - 86.40 :CHL Chlorite, P Pervasive, M Moderate</p> <p>77.00 - 86.40 :TL Talc, P Pervasive, M Moderate moderate to strong</p> <p>Structure</p> <p>77.00 - 86.40 average piece length ~10 cm</p>							
86.40	97.95	<p>MD, Mafic Dyke</p> <p>Green, aphanitic to fine grained, non-magnetic, Mafic Dyke. Trace fine dissemination of sulphides, competent. Fine banding at 80-90 degrees to LCA. Moderate pervasive coarse grained biotite alteration. Upper and lower contact are sharp, with small 5-10cm veins of UM//MD +/- 1m from upper contact and MD/GAB +/- 1m from lower contact..</p> <p>MINOR INTERVALS:</p> <p>Minor Interval: 95.45 - 97.95 ANOR, Anorthosite as described above.</p>							

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
97.95	132.50	GAB, Gabbro Porphyritic Gabbro, aphanitic dark green with white plagioclase phenocrysts <1mm , giving mottled texture. Weak banding apparent at 80 degrees to LCA. Trace sulphides smeared on fracture surfaces. Moderately competent with several broken sections up to 1m long. Mineralization 97.95 - 115.00 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, F Fracture Controlled, 0.1% smeared on fractures. Structure 100.60 - 101.50 average length ~5cm, no gouge 108.50 - 109.00 average length ~5cm, no gouge							
132.50	137.10	ANOR, Anorthosite as above. Contact is sharp.							
137.10	137.11	EOH, End of Hole							

## Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
BL00230	51.00	51.90			
BL00231	51.90	52.40			
BL00232	52.40	53.00			
BL00233	53.00	53.50			
BL00234	53.50	54.50			