

Hole Number: ES08-145

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -80.00
Project Number: 201	North:	North: 0.00	Collar Az: 230.00
Location: Surface	East:	East: 4.51	Length: 116.01 (m)
	Elev:	Elev: 0.00	Start Depth: 0.00 (m)
Date Started: Apr 07, 2008	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed:	Multishot Survey: N	Hole Size: BQ	Core Storage: Tyrstrand
Logged By: vbnor	Pulse EM Survey: N	Casing: Pulled	Final Depth: 116.01 (m)

Comments: Hole was designed to follow up at 100m spacing, the down dip extension of ES08-144.

## RESULTS:

49.7-56.7m UM, 2% disseminated sulphides

99.85-100.45m: 3 ANOR hosted sulphide veins, 5, 10 and 15cm long, with po, pn and cp.

## Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	11.40	CAS, Casing							
11.40	49.70	ANOR, Anorthosite Fine to coarse grained, moderately foliated at 80-90 degrees to LCA, grey-white and minor green Anorthosite. Common mottled texture. Non magnetic, sericite, epidote, talc and chlorite alteration seen in banding and disseminated. Generally competent. Alteration 38.00 - 49.70 :BIO Biotite, MO Mottled, M Moderate Very coarse grained. 11.40 - 49.70 :EP Epidote, Dis Disseminated, W Weak 11.40 - 49.70 :CHL Chlorite, Dis Disseminated, W Weak 11.40 - 49.70 :SE Sericite, B Banded, M Moderate 11.40 - 49.70 :TL Talc, Dis Disseminated, W Weak Structure 45.00 - 49.70 Very fractured, trace gouge on fracture surfaces.							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
49.70	56.70	<p>UM, Ultramafic</p> <p>Grey, magnetite, serpentine, biotite and talc altered Ultra Mafic rock. &lt;2% sulphides disseminated and patchy. Generally competent. Original fabric of rock destroyed by talc alteration.</p> <p>Mineralization</p> <p>49.70 - 56.70 : PO Pyrrhotite, DIS Disseminated, 1.5% and coating fractures</p> <p>Alteration</p> <p>49.70 - 56.00 : BIO Biotite, MO Mottled, W Weak Weak coarse grained biotite.</p> <p>49.70 - 56.00 : SERP Serpentine, Dis Disseminated, M Moderate</p> <p>49.70 - 56.00 : MAG Magnetite, Dis Disseminated, M Moderate</p> <p>49.70 - 56.00 : TL Talc, Dis Disseminated, M Moderate</p>							
56.70	68.40	<p>MD, Mafic Dike</p> <p>Green, aphanitic to fine grained, non-magnetic, Mafic Dyke. Sections 0.2-1m long of coarse grained biotite altered dyke (?). Trace sulphides, in rare veins &lt;1cm, very broken. Fine banding at 80-90 degrees to LCA. Upper and lower contact are sharp, with small 5-10cm veins of Anor/UM/MD +/- 1m from contacts.</p> <p>Structure</p> <p>56.70 - 68.40 Very broken, rare gouge</p> <p>59.10 - 59.20 and clay.</p>							
68.40	72.90	<p>ANOR, Anorthosite</p> <p>Fine to medium grained, weakly 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. No sulphides, generally competent.</p> <p>Alteration</p> <p>68.40 - 72.90 : TL Talc, Dis Disseminated, W Weak</p> <p>68.40 - 72.90 : CHL Chlorite, Dis Disseminated, W Weak</p> <p>68.40 - 72.90 : SE Sericite, B Banded, W Weak</p>							
72.90	97.15	<p>MD, Mafic Dike</p> <p>Green, aphanitic to medium grained, non-magnetic, Mafic Dyke. No sulphides, competent with frequent broken sections ~50cm in length. Weak 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.</p>							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
97.15	103.70	ANOR, Anorthosite Fine to coarse grained, well foliated at 80-90 degrees to LCA, grey-white and minor green Anorthosite. 3 sulphide veins, 2, 10 and 15 cm in length, composed mostly of po and cp. Non magnetic, sericite, epidote, talc and chlorite alteration seen in <1cm banding and disseminated. Several green mafic dykes throughout section. No sulphides, except for 1 small section shown below. Generally competent. Mineralization 99.85 - 99.95 : CP Chalcopyrite, ws wisps, 5% 99.85 - 99.95 : PO Pyrrhotite, VN Veins, 40% 100.30 - 100.45 : CP Chalcopyrite, ws wisps, 5% 100.30 - 100.45 : PO Pyrrhotite, VN Veins, 50% Alteration 97.15 - 103.70 :EP Epidote, B Banded, W Weak 97.15 - 103.70 :CHL Chlorite, B Banded, W Weak 97.15 - 103.70 :SE Sericite, B Banded, M Moderate 97.15 - 103.70 :TL Talc, Dis Disseminated, W Weak	BL00258	98.35	99.35	1.00	0.0860	0.2600	0.0080
			BL00259	99.35	99.85	0.50	0.0100	0.3150	0.0020
			BL00260	99.85	100.45	0.60	0.9930	0.7660	0.0820
			BL00261	100.45	101.00	0.55	0.0700	0.0530	0.0070
			BL00262	101.00	101.55	0.55	0.0080	0.0050	0.0020
103.70	116.00	MD, Mafic Dike Green, aphanitic to fine grained, non-magnetic, Mafic Dyke. No sulphides, competent. Fine banding at 80-90 degrees to LCA. Upper and lower contact are sharp, with up to 50cm veins of Anor/MD +/- 1m from contacts.							
116.00	116.01	EOH, End of Hole							

## Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
BL00258	98.35	99.35	0.0860	0.2600	0.0080
BL00259	99.35	99.85	0.0100	0.3150	0.0020
BL00260	99.85	100.45	0.9930	0.7660	0.0820
BL00261	100.45	101.00	0.0700	0.0530	0.0070
BL00262	101.00	101.55	0.0080	0.0050	0.0020