

Hole Number: ES08-166

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -78.90
Project Number: 201	North: 6805202.00	North: 61.38	Collar Az: 230.00
Location: Surface	East: 534011.00	East: 9.64	Length: 234.31 (m)
	Elev: 755.00	Elev: 755.00	Start Depth: 0.00 (m)
Date Started: Jun 19, 2008	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Jun 24, 2008	Multishot Survey: N	Hole Size: BQ	Core Storage:
Logged By: pmnor	Pulse EM Survey: N	Casing: Left in Hole	Final Depth: 234.31 (m)

Comments: This hole was designed to test the extent of the mineralized pyroxenite 50 along strike to the SE of ES08-163:

Results:

Only locally mineralized. No pyroxenite was encountered within the hole.

Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	8.70	O/B, Overburden							
8.70	65.50	ANOR, Anorthosite Pale grey/white. Minor green. Mg to cg. Predominantly massive with weakly foliated portions near fault zones @ 60 dtca. Not mineralized. Patchy m wide bleached sections with abundant bleaching of plagioclase. Mineralization 12.65 - 12.95 : PO Pyrrhotite, BL Blebby, 5% 12.65 - 12.95 : PY Pyrite, BB Blebby, 2% Structure 39.88 - 41.68 Low angle faulting and fracturing with strongly chloritized amphiboles. 57.01 - 58.58 In situ brecciation of anorthosite with angular, large clasts of anorthosite with a matrix of 3-8mm sized particles of altered anorthosite and plag rich matrix. Strong faulting and late stage hydrothermal alteration MINOR INTERVALS: Minor Interval: 20.9 - 21.25 MD, Mafic Dike Green,, fg, massive. Homogenous. Sharp upper and lower contact parallel to foliation @60 dtca. Pyritic fracture coatings.	BL00815	12.15	12.65	0.50	0.0020	0.0025	0.0005
			BL00816	12.65	12.95	0.30	0.0240	0.0190	0.0030
			BL00817	12.95	13.45	0.50	0.0040	0.0025	0.0005

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
65.50	77.30	<p>DIA, Diabase Diabase/Mafic Dyke Dark green, black. Fg to mg, massive. Similar to md however higher px and amphibole content. Plagioclase occurs as 3-7% fg flecks. The rest consists of mafic minerals. Weak to moderate magnetism. Sharp upper and lower contacts to anorthosite.</p> <p>Structure 76.05 - 76.40 Very blocky faulted core with clay and pyritic fracture coatings.</p> <p>MINOR INTERVALS: Minor Interval: 68.5 - 69.12 ANOR, Anorthosite Small inclusion of cg, white anorthosite. Sharp and quenched contacts in the diabase over 1dm and contacts roughly 60 dtca.</p>							
77.30	98.20	<p>ANOR, Anorthosite</p> <p>Structure 91.60 - 91.90 LOST CORE!</p>							
98.20	151.03	<p>MD, Mafic Dike Green, light green. Fg to mg. Not magnetic. Massive as well as moderately foliated to sheared locally @60 dtca. Not mineralized and homogenous. Sharp and gaugy upper contact parallel to foliation. Unit contains ~20% 2-3m wide sections of anorthosite (described in sub-litho).</p> <p>Structure 112.45 - 113.83 : SHR Shear, 60 Deg to CA Moderately sheared section of MD. Numerous breaks and soft fractures. 1-2% fg, v thin pyrite stringers along foliation plane.</p> <p>MINOR INTERVALS: Minor Interval: 121.29 - 125.63 ANOR, Anorthosite 95% white-grey anorthosite. Not mineralized. Contacts are irregular and often sheared. PAtchy chlorite alterations throughout. Local development of strong fabric @60 dtca. Minor Interval: 136.6 - 139.8 ANOR, Anorthosite Same as above. Minor Interval: 140.9 - 144.3 ANOR, Anorthosite As above.</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%
151.03	229.53	ANOR, Anorthosite White-grey. Semi-massive with weak foliation locally @60 dtca. Abundant feldspar with minor amounts of chloritic material and amphibole. Unit is moderately heterogenous with variable plagioclase content. 10% dm wide mafic dykelets throughout. Occassional thin whisps of fuchsite. Mineralized locally. Mineralization 188.25 - 188.80 : POPNCP Pyrrhotite/Pentlandite/Chalcopyrite, DIS Disseminated, 5% 5% fg. disseminated interstial PO with minor Cpy, No PN visible, within bleached anorthosite MINOR INTERVALS: Minor Interval: 163.3 - 165.4 MD, Mafic Dike Light green, fg, massive, homogenous. Sharp upper and lower contact 60-65 dtca. Vfg quenched contacts over 0.3m. Not mineralized. Minor Interval: 188.32 - 190.18 MD, Mafic Dike As above. With strong foliations @60 dtca. Sharp upper and lower contact parallel to foliation. Minor Interval: 224.8 - 226.24 MD, Mafic Dike Same as overlying with strong foliation.	BL00818	187.75	188.25	0.50	0.0040	0.0025	0.0020
			BL00819	188.25	188.80	0.55	0.0550	0.0410	0.0050
			BL00821	188.80	189.30	0.50	0.0110	0.0025	0.0020
229.53	234.30	MD, Mafic Dike Green-dark green, fg, homogenous, sharp upper contact to Anor that is moderately sheared. Moderately foliated 60 dtca.							
234.30	234.31	EOH, End of Hole							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
BL00815	12.15	12.65	0.0020	0.0025	0.0005
BL00816	12.65	12.95	0.0240	0.0190	0.0030
BL00817	12.95	13.45	0.0040	0.0025	0.0005
BL00818	187.75	188.25	0.0040	0.0025	0.0020
BL00819	188.25	188.80	0.0550	0.0410	0.0050
BL00821	188.80	189.30	0.0110	0.0025	0.0020