

Hole Number: ES08-167

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -79.00
Project Number: 201	North: 6805276.00	North: 61.38	Collar Az: 234.60
Location: Surface	East: 534048.00	East: 9.64	Length: 205.71 (m)
	Elev: 787.00	Elev: 787.00	Start Depth: 0.00 (m)
Date Started: Jun 25, 2008	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Jun 29, 2008	Multishot Survey: N	Hole Size: BQ	Core Storage:
Logged By: pmnor	Pulse EM Survey: N	Casing: Left in Hole	Final Depth: 205.71 (m)

Comments: Hole designed to test extent of mineralized pyroxenite 80m down-dip of ES08-163.

Results:

130.00-133.50m: 7-10% vfg Po and minor Cpy remobilized stringer veins in a partially sheared UM (pyxt)

133.50-138.06m: 1-2% vfg to fg disseminated Po. Trace Cpy within a massive cg homogenous UM (pyxt).

Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	6.15	O/B, Overburden							
6.15	39.40	ANOR, Anorthosite Grey/dark grey. Minor green. Massive and foliated intervals, ~60 dtca. mg to cg. Abundant feldspar and moderately chloritized. MINOR INTERVALS: Minor Interval: 13.95 - 14.06 MD, Mafic Dike Pale green, fg, gaugy, sheared 45 dtca. Contact parallel to foliation. Minor Interval: 17.1 - 18.77 MD, Mafic Dike Set of MD dykelets. Green/dark gree. Massive to sheared 45 dtca with contacts parallel to foliation.							
39.40	75.75	MD, Mafic Dike MD/Gabbro Green/Dark Green, massive. fg to mg, homogenous. Even grained. Abundant feldspar and amphiboles (50/50). Queneched upper and lower contacts over 0.50m. Sheared/Bx upper and lower contacts over 0.2m. Unit mineralized with trace to 0.5% vfg to fg, disseminated Py. Up to 1% locally. Towards base 69.78 to 75.75 mineralization increase to 1-2% and includes Po (this section sampled). Thin chloritic veinlets.	BL00822	67.78	68.78	1.00	0.0020	0.0070	0.0020
			BL00823	68.78	69.78	1.00	0.0020	0.0070	0.0020
			BL00824	69.78	71.00	1.22	0.0040	0.0110	0.0030
			BL00825	71.00	72.00	1.00	0.0040	0.0140	0.0030
			BL00826	72.00	73.00	1.00	0.0060	0.0310	0.0050
			BL00827	73.00	74.00	1.00	0.0030	0.0260	0.0030
			BL00828	74.00	75.00	1.00	0.0020	0.0140	0.0020
			BL00829	75.00	75.75	0.75	0.0010	0.0070	0.0020
75.75	93.41	ANOR, Anorthosite As above. However, more homogenous.	BL00830	75.75	76.75	1.00	0.0030	0.0025	0.0020
			BL00831	76.75	77.75	1.00	0.0030	0.0025	0.0010
93.41	107.32	MD, Mafic Dike Green/light green. Massive. Homogenous. VFG quenched contacts over 0.75m. Anorthosite inclusion 93.55-93.78m.							
107.32	130.00	ANOR, Anorthosite Same as above.	BL00832	128.00	129.00	1.00	0.0030	0.0025	0.0010
			BL00833	129.00	130.00	1.00	0.0020	0.0025	0.0010

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
130.00	138.06	PYXT, Pyroxenite Dark green/Black. Cg. Massive with locally sheared sections @60 dtca. Moderately to strongly magnetic. Mineralization: 130.0-133.5: 7-10%vfg Po and 1% Cpy. Mineralization occurs and thins remobilized stringers of sulphides. Not typical in Dalen where sulphides are predominantly disseminated. 133.5-138.06: ~2% vfg diss Po in equigranular PYXT. Unit is more massive here.	BL00834	130.00	131.00	1.00	0.4160	0.1270	0.0310
			BL00835	131.00	131.50	0.50	0.3750	0.1130	0.0260
			BL00836	131.50	132.00	0.50	0.2760	0.0610	0.0210
			BL00837	132.00	132.50	0.50	0.4090	0.0980	0.0320
			BL00838	132.50	133.00	0.50	0.2590	0.1600	0.0210
			BL00839	133.00	133.50	0.50	0.1360	0.0350	0.0110
			BL00841	133.50	134.00	0.50	0.1550	0.0390	0.0140
			BL00842	134.00	135.00	1.00	0.2250	0.0890	0.0190
			BL00843	135.00	136.00	1.00	0.2470	0.0800	0.0210
			BL00844	136.00	137.00	1.00	0.2780	0.0790	0.0230
			BL00845	137.00	138.06	1.06	0.1820	0.0570	0.0150
138.06	142.42	MD, Mafic Dike Green, fg to mg. Homogenous, moderately foliated 55-60dtca. Sharp upper contact to UM @60 dtca.	BL00846	138.06	139.00	0.94	0.0050	0.0180	0.0030
			BL00847	139.00	140.00	1.00	0.0050	0.0180	0.0040
142.42	146.20	FLT, Fault Wide fault zone within MD and continues into underlying ANOR. Very brittle core with fg gravel sections. Lost Core from 143.4-144.9m.							
146.20	192.95	ANOR, Anorthosite Grey/white. Minor green. Predominantly massive. mg to cg. Abundant feldspar and moderately chloritized. Local m-wide sections with 100% bleached feldspar.							
192.95	199.40	MD, Mafic Dike Green, light green. Fg to mg. Homogenous. Vfg quenched contacts of 0.5m. Not mineralized. Moderately foliated @70 dtca.							
199.40	205.70	ANOR, Anorthosite Grey/white. Minor green. Predominantly massive. mg to cg. Abundant feldspar and moderately chloritized. Local m-wide sections with 100% bleached feldspar.							
205.70	205.71	EOH, End of Hole							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
BL00822	67.78	68.78	0.0020	0.0070	0.0020
BL00823	68.78	69.78	0.0020	0.0070	0.0020
BL00824	69.78	71.00	0.0040	0.0110	0.0030
BL00825	71.00	72.00	0.0040	0.0140	0.0030
BL00826	72.00	73.00	0.0060	0.0310	0.0050
BL00827	73.00	74.00	0.0030	0.0260	0.0030
BL00828	74.00	75.00	0.0020	0.0140	0.0020
BL00829	75.00	75.75	0.0010	0.0070	0.0020

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Sample Type	ASSAY				
BL00830	75.75	76.75	0.0030	0.0025	0.0020
BL00831	76.75	77.75	0.0030	0.0025	0.0010
BL00832	128.00	129.00	0.0030	0.0025	0.0010
BL00833	129.00	130.00	0.0020	0.0025	0.0010
BL00834	130.00	131.00	0.4160	0.1270	0.0310
BL00835	131.00	131.50	0.3750	0.1130	0.0260
BL00836	131.50	132.00	0.2760	0.0610	0.0210
BL00837	132.00	132.50	0.4090	0.0980	0.0320
BL00838	132.50	133.00	0.2590	0.1600	0.0210
BL00839	133.00	133.50	0.1360	0.0350	0.0110
BL00841	133.50	134.00	0.1550	0.0390	0.0140
BL00842	134.00	135.00	0.2250	0.0890	0.0190
BL00843	135.00	136.00	0.2470	0.0800	0.0210
BL00844	136.00	137.00	0.2780	0.0790	0.0230
BL00845	137.00	138.06	0.1820	0.0570	0.0150
BL00846	138.06	139.00	0.0050	0.0180	0.0030
BL00847	139.00	140.00	0.0050	0.0180	0.0040