

Hole Number: ES08-149

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -80.00
Project Number: 201	North: 6805360.00	North: 61.38	Collar Az: 200.00
Location: Surface	East: 533494.00	East: 9.63	Length: 209.61 (m)
	Elev: 738.00	Elev: 738.00	Start Depth: 0.00 (m)
Date Started: Apr 26, 2008	Collar Survey: N	Plugged: N	Contractor: Arctic Drilling A/S
Date Completed: Apr 30, 2008	Multishot Survey: N	Hole Size: BQ	Core Storage: Trystrand
Logged By: pmnor	Pulse EM Survey: N	Casing: Left in Hole	Final Depth: 209.61 (m)

Comments: Drilled to test a magnetic high response.

Results: No significant mineralization intersected.

18.90-41.00m: 2-10% disseminated Po and trace local Cpy in pyroxenite

Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	4.20	O/B, Overburden							
4.20	91.75	PYXT, Pyroxenite Dark grey to black. Mg to VCG. Homogenous and massive and strongly magnetic. ~30 cg to vcg, up to 15mm locally pyroxenes (metallic brown silicate: OPX?). Unit mineralized locally with 3-5% cg blebs and disseminated intervals with Po and trace Cpy. Blebby mineralization occurs mainly in the vcg interval. Texture 23.00 - 35.00 : CG Coarse Grained VCG ultramafic Mineralization 18.90 - 23.00 : PO Pyrrhotite, DIS Disseminated, 2% 23.00 - 30.90 : Cpy Chalcopyrite, DIS Disseminated, 0.1% 23.00 - 30.90 : PO Pyrrhotite, BB Blebby, 5% 30.90 - 32.00 : Cpy Chalcopyrite, DIS Disseminated, 0.1% 30.90 - 32.00 : PO Pyrrhotite, DIS Disseminated, 10% 32.00 - 35.00 : PO Pyrrhotite, BB Blebby, 5% 35.00 - 41.00 : PO Pyrrhotite, DIS Disseminated, 2% Structure 56.50 - 61.90 Sporadic faulted and altered core. Often talc and serpentine altered fault contacts. MINOR INTERVALS: Minor Interval: 11.02 - 14 MD, Mafic Dike Green/light gree. Mg. Massive. Homogenous. Fg quenched contacts over 0.2m. Not mineralized. Sharp upper contact at 50 dtca. strongly broken lower contact.	BL00373	16.90	17.90	1.00	0.1630	0.0270	0.0120
			BL00374	17.90	18.90	1.00	0.1580	0.0350	0.0120
			BL00375	18.90	20.00	1.10	0.2700	0.0870	0.0140
			BL00376	20.00	20.90	0.90	0.2150	0.1900	0.0120
			BL00377	20.90	22.00	1.10	0.1810	0.0470	0.0120
			BL00378	22.00	23.00	1.00	0.2120	0.1370	0.0130
			BL00379	23.00	24.00	1.00	0.3730	0.3820	0.0180
			BL00381	24.00	25.00	1.00	0.4240	0.2950	0.0190
			BL00382	25.00	26.00	1.00	0.5150	0.2160	0.0210
			BL00383	26.00	27.00	1.00	0.2130	0.1140	0.0120
			BL00384	27.00	28.00	1.00	0.4390	0.3300	0.0200
			BL00385	28.00	29.00	1.00	0.4050	0.4950	0.0190
			BL00386	29.00	30.00	1.00	0.3830	0.1410	0.0170
			BL00387	30.00	30.90	0.90	0.4300	0.1620	0.0190
			BL00388	30.90	32.00	1.10	0.6970	0.5070	0.0250
			BL00389	32.00	33.00	1.00	0.3050	0.1530	0.0160
			BL00390	33.00	34.00	1.00	0.3090	0.1520	0.0160
			BL00392	34.00	35.00	1.00	0.1700	0.0660	0.0100
			BL00393	35.00	36.00	1.00	0.1290	0.0240	0.0110
			BL00394	36.00	37.00	1.00	0.1140	0.0170	0.0100
			BL00395	37.00	38.00	1.00	0.1160	0.0220	0.0100
			BL00396	38.00	39.40	1.40	0.1410	0.0320	0.0120
			BL00397	39.40	40.20	0.80	0.5750	0.2500	0.0240
			BL00398	40.20	41.00	0.80	0.4390	0.1250	0.0200
			BL00399	41.00	42.00	1.00	0.1360	0.0240	0.0120
			BL00401	42.00	43.00	1.00	0.1440	0.0380	0.0120

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
91.75	102.65	MD, Mafic Dike Green/light gree. fg to mg. Massive. Homogenous. Not mineralized. Sharp upper contact at 50 dtca. strongly broken core throughout with very low RQD. Numerous faults.							
102.65	144.15	PYXT, Pyroxenite Dark grey to black. Mg to VCG. Homogenous and massive and strongly magnetic. ~30 cg to vcg, up to 15mm locally pyroxenes (metallic brown silicate: OPX?).							
144.15	167.95	GAB, Gabbro Green/light gree. Mg to cg. Massive. Predominantly homogenous with weak foliation approx 60 dtca. Not mineralized. Sharp upper contact at 50 dtca.							
167.95	195.35	ANOR, Anorthosite Grey/grey green. Mg to cg. Massive and relatively homogenous. Amphiboles altered to green mineral. ~3% dm wide brecciated sections occupied with fg dark green mafic dyke material. Structure 182.00 - 182.35 : VN Veins, 0 Deg to CA Thin, open spac filling quartz vein parallel to core axis.							
195.35	209.60	GAB, Gabbro Green/light gree. Mg to cg. Massive. Predominantly homogenous with weak foliation approx 60 dtca. Not mineralized. Sharp upper contact at 50 dtca.							
209.60	209.61	EOH, End of Hole							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
BL00373	16.90	17.90	0.1630	0.0270	0.0120
BL00374	17.90	18.90	0.1580	0.0350	0.0120
BL00375	18.90	20.00	0.2700	0.0870	0.0140
BL00376	20.00	20.90	0.2150	0.1900	0.0120
BL00377	20.90	22.00	0.1810	0.0470	0.0120
BL00378	22.00	23.00	0.2120	0.1370	0.0130
BL00379	23.00	24.00	0.3730	0.3820	0.0180
BL00381	24.00	25.00	0.4240	0.2950	0.0190
BL00382	25.00	26.00	0.5150	0.2160	0.0210
BL00383	26.00	27.00	0.2130	0.1140	0.0120
BL00384	27.00	28.00	0.4390	0.3300	0.0200
BL00385	28.00	29.00	0.4050	0.4950	0.0190
BL00386	29.00	30.00	0.3830	0.1410	0.0170
BL00387	30.00	30.90	0.4300	0.1620	0.0190

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Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
BL00388	30.90	32.00	0.6970	0.5070	0.0250
BL00389	32.00	33.00	0.3050	0.1530	0.0160
BL00390	33.00	34.00	0.3090	0.1520	0.0160
BL00392	34.00	35.00	0.1700	0.0660	0.0100
BL00393	35.00	36.00	0.1290	0.0240	0.0110
BL00394	36.00	37.00	0.1140	0.0170	0.0100
BL00395	37.00	38.00	0.1160	0.0220	0.0100
BL00396	38.00	39.40	0.1410	0.0320	0.0120
BL00397	39.40	40.20	0.5750	0.2500	0.0240
BL00398	40.20	41.00	0.4390	0.1250	0.0200
BL00399	41.00	42.00	0.1360	0.0240	0.0120
BL00401	42.00	43.00	0.1440	0.0380	0.0120