

Hole Number: ES07-103

Units: METRIC

Project Name: Norway - Espedalen	Primary Coordinates Grid: UTM84-32N	Destination Coordinates Grid: UTM:	Collar Dip: -90.00
Project Number: 201	North: 6807001.00	North: 61.40	Collar Az: 0.00
Location: Megrund	East: 528692.00	East: 9.54	Length: 148.21 (m)
	Elev: 1174.00	Elev: 1174.00	Start Depth: 0.00 (m)
Date Started: Nov 17, 2007	Collar Survey: N	Plugged: N	Contractor: Drillcon Core AB
Date Completed: Nov 21, 2007	Multishot Survey: N	Hole Size: TT46	Core Storage: Tyrstrand
Logged By: K Leonard	Pulse EM Survey: N	Casing: Left in Hole	Final Depth: 148.21 (m)

Comments: This hole was collared to test a strong circular magnetic high anomaly west of the Megrund mineralized target.

Results:

71.38 - 71.77m - +30% semi-massive Po and very minor Pn

84.50 - 85.60m - 3-5% disseminated Po

110.50 - 112.0m - 3-5% disseminated blebs and flecks of Po

124.36 - 127.89m - 1 - 3% disseminated Po

Sample Averages

Detailed Lithology		Assay Data							
From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
0	1.30	CAS, Casing							
1.30	37.17	UM, Ultramafic black in colour, medium to coarse grained, abundant, densely packed, subhedral pyroxene pseudomorphs, massive texture, cut by occasional carbonate infilled fractures, strongly magnetic, competent core, locally fractured and/or broken core, nil sulphides. Texture 1.30 - 37.17 : CG Coarse Grained Structure 22.67 - 22.96 29.40 - 29.84 carbonate stained fracture faces, fizzes in 10% dilute HCl. 33.53 - 33.58 : VN Veins, 45 Deg to CA off-white qtz-carb veinlet 35.17 - 35.26 : VN Veins, 20 Deg to CA off-white qtz-carb veinlets							
37.17	49.55	GAB, Gabbro grey in colour, medium grained, foliated, noticeable mm-sized blebby mafic constituents, competent core, trace sulphides, sharp upper contact with UMAF at 57 deg to the LCA., sheared and blocky (3-9cm sections, minor pocker chips) lower contact at 80 deg to the LCA.							

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
49.55	71.38	MD, Mafic Dike grey-green in colour, fine grained, homogenous to locally sheared, occasionally strongly fractured, becoming more sheared below 63.0m, sharp lower contact at 71.37m @ 54 deg to the LCA, trace sulphides. Structure 63.00 - 71.37 : STRFOL Strongly Foliated, 50 Deg to CA chloritic 66.60 - 66.80 blocky, fissile core 68.17 - 68.20 chlorite	PG08176	71.00	71.37	0.37	0.0180	0.0025	0.0050
			PG08177	71.37	71.77	0.40	1.7560	0.1280	0.1390
71.38	77.14	GAB, Gabbro Leucogabbro, lgreyish white, medium grained, homogenous to weakly foliated, chock-a-block with off-white mm-scale plagioclase phenocrysts set within grey coloured mafic-rich material, rare shear banding, competent core 71.77 - 72m: upper contact is sheared and fractured MINOR INTERVALS: Minor Interval: 71.38 - 71.77 SULF, Sulfide 30% semi-massive Po, Py and +/- Pn mineralization as fine grained masses and clots. Mineralization 71.38 - 71.77 : PO Pyrrhotite, SM Semi-Massive, 30% 71.38 - 71.77 : PN Pentlandite, DIS Disseminated, 1% 71.38 - 71.77 : PY Pyrite, SM Semi-Massive, 30%	PG08178	71.77	72.20	0.43	0.0710	0.2180	0.0070
77.14	84.50	MD, Mafic Dike grey-green in colour, fine grained to slightly feldspar porphyritic - hybrid unit. pegmatitic plagioclase-rich sections comprising 25% of the unit from 77.87 - 78.13m, 79.23 - 79.36m, 79.59 - 80.15m, 83.77 - 84.50m. rare black coloured biotite-chlorite spots (<= 1 cm) from 78.15 - 79.21m.	PG08179	84.00	84.50	0.50	0.0190	0.0090	0.0040
84.50	85.60	UM, Ultramafic black in colour, medium grained, glassy appearance, strongly magnetic, scattered flecks and blebs of Po. MINOR INTERVALS: Minor Interval: 84.5 - 85.6 SULF, Sulfide 3-5% disseminated flecks and blebs of Po. Mineralization 84.50 - 85.60 : PO Pyrrhotite, BB Blebby, 3% scattered flecks and blebs throughout UMAF unit.	PG08181	84.50	85.00	0.50	0.1050	0.0440	0.0140
			PG08182	85.00	85.60	0.60	0.0680	0.0180	0.0110

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From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
85.60	87.90	MD, Mafic Dike same as unit observed from 77.14 to 84.50m.. Hybrid melt, numerous plagioclase-rich sweats and lenses, competent core, broken lower contact at 45 deg to the LCA., nil sulphides	PG08183	85.60	86.00	0.40	0.0300	0.0160	0.0060
87.90	99.75	GNOR, Gabbro Norite Anorthositic appearance - (65% An , 35% Mafic), mottled beige-white in colour, coarse grained to pegmatitic, massive to weakly foliated, predominant foliation trends 70 deg to the LCA., generally competent core with minor fracturing, nil sulphides.							
99.75	112.00	UM, Ultramafic black in colour, similar in appearance to units observed above from 1.30 - 37.17m and 84.50 - 87.90m respectively. recognizable serpentinized fracture faces on broken core at 100.35m. Structure 99.75 - 104.80 serpentinized, slickensides, fissile fracturing 104.50 - 104.80 : DSK Disking, 90 Deg to CA chloritized 109.80 - 110.00 : DSK Disking, 90 Deg to CA fissile gouge coating fractures 111.42 - 111.80 broken, fragmented core MINOR INTERVALS: Minor Interval: 110.5 - 112 SULF, Sulfide 3-5% disseminated flecks and blebs of Po and minor Cpy.. Mineralization 110.50 - 112.00 : PO Pyrrhotite, DIS Disseminated, 3%	PG08184	110.00	110.50	0.50	0.0860	0.0200	0.0130
			PG08185	110.50	111.00	0.50	0.1030	0.0350	0.0130
			PG08186	111.00	111.50	0.50	0.1220	0.0450	0.0150
			PG08187	111.50	111.92	0.42	0.1180	0.0260	0.0170
			PG08188	111.92	112.40	0.48	0.0230	0.0100	0.0050

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Detailed Lithology		Lithology	Assay Data						
From (m)	To (m)		Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
112.00	129.33	GNOR, Gabbro Norite grey-green in colour, fine to medium grained, foliated to locally sheared, texturally highly variable - modified by coarse grained relict plagioclase-rich bands and lenses, abrupt lower contact at 129.33m @ 90 deg to the LCA. Structure 115.26 - 115.46 sericite and carbonate coating fractures 116.07 - 116.46 sericitized slickensides 117.73 - 117.95 chloritized slickensides 118.27 - 118.95 : F Fractured, 5 Deg to CA low angle fractures 121.45 - 121.62 strongly broken core MINOR INTERVALS: Minor Interval: 124.36 - 127.89 SULF, Sulfide 1-3% disseminated flecks and blebs of Po Mineralization 124.36 - 127.89 : PO Pyrrhotite, DIS Disseminated, 3%	PG08189	124.00	124.36	0.36	0.0320	0.0140	0.0060
			PG08190	124.36	124.80	0.44	0.0890	0.0370	0.0120
			PG08191	124.80	125.20	0.40	0.0110	0.0025	0.0030
			PG08192	125.20	125.70	0.50	0.0550	0.0190	0.0080
			PG08193	125.70	126.70	1.00	0.0120	0.0025	0.0030
			PG08194	126.70	127.30	0.60	0.0200	0.0090	0.0050
			PG08195	127.30	127.89	0.59	0.1020	0.0540	0.0140
			PG08196	127.89	128.30	0.41	0.0950	0.0310	0.0130
			PG08197	128.30	128.70	0.40	0.0190	0.0110	0.0040
129.33	131.67	UM, Ultramafic Pyroxenite - same as unit noted above from 99.75 - 112.00m, strongly magnetic, trace sulphides							
131.67	133.94	GNOR, Gabbro Norite dark grey in colour, fine grained with intermittent medium to-coarse grained plagioclase-phyric bands and masses definite intercalation of gabbro -norite and ultramafic units.							
133.94	134.78	UM, Ultramafic same as units observed above from 99.75 - 112.0m and 129.33 - 131.67m respectively.							
134.78	140.03	GNOR, Gabbro Norite same as unit described above from 131.67 - 133.94m. 50% of the unit is modified by medium to-coarse grained plagioclase-rich bands and sections							
140.03	145.09	UM, Ultramafic black in colour, medium to coarse grained, massive, abundant subhedral pyroxene pseudomorphs throughout, competent core, trace sulphides							
145.09	148.20	GAB, Gabbro black in colour, fine to-medium grained, homogenous texture, lower magnetic susceptibility than UMAF unit above, competent core - 15% frequency of fractures, nil sulphides.							

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From (m)	To (m)	Lithology	Sample Number	From (m)	To (m)	Length (m)	Ni%	Cu%	Co%
148.20	148.21	EOH, End of Hole							

Samples

Sample Number	From (m)	To (m)	Ni%	Cu%	Co%
Sample Type	ASSAY				
PG08176	71.00	71.37	0.0180	0.0025	0.0050
PG08177	71.37	71.77	1.7560	0.1280	0.1390
PG08178	71.77	72.20	0.0710	0.2180	0.0070
PG08179	84.00	84.50	0.0190	0.0090	0.0040
PG08181	84.50	85.00	0.1050	0.0440	0.0140
PG08182	85.00	85.60	0.0680	0.0180	0.0110
PG08183	85.60	86.00	0.0300	0.0160	0.0060
PG08184	110.00	110.50	0.0860	0.0200	0.0130
PG08185	110.50	111.00	0.1030	0.0350	0.0130
PG08186	111.00	111.50	0.1220	0.0450	0.0150
PG08187	111.50	111.92	0.1180	0.0260	0.0170
PG08188	111.92	112.40	0.0230	0.0100	0.0050
PG08189	124.00	124.36	0.0320	0.0140	0.0060
PG08190	124.36	124.80	0.0890	0.0370	0.0120
PG08191	124.80	125.20	0.0110	0.0025	0.0030
PG08192	125.20	125.70	0.0550	0.0190	0.0080
PG08193	125.70	126.70	0.0120	0.0025	0.0030
PG08194	126.70	127.30	0.0200	0.0090	0.0050
PG08195	127.30	127.89	0.1020	0.0540	0.0140
PG08196	127.89	128.30	0.0950	0.0310	0.0130
PG08197	128.30	128.70	0.0190	0.0110	0.0040